



## Missouri S&T Magazine, May-June 1959

Miner Alumni Association

Follow this and additional works at: <https://scholarsmine.mst.edu/alumni-magazine>

---

### Recommended Citation

Miner Alumni Association, "Missouri S&T Magazine, May-June 1959" (1959). *Missouri S&T Magazine*. 107.  
<https://scholarsmine.mst.edu/alumni-magazine/107>

This Magazine is brought to you for free and open access by Scholars' Mine. It has been accepted for inclusion in Missouri S&T Magazine by an authorized administrator of Scholars' Mine. This work is protected by U. S. Copyright Law. Unauthorized use including reproduction for redistribution requires the permission of the copyright holder. For more information, please contact [scholarsmine@mst.edu](mailto:scholarsmine@mst.edu).



# MSM Alumnus

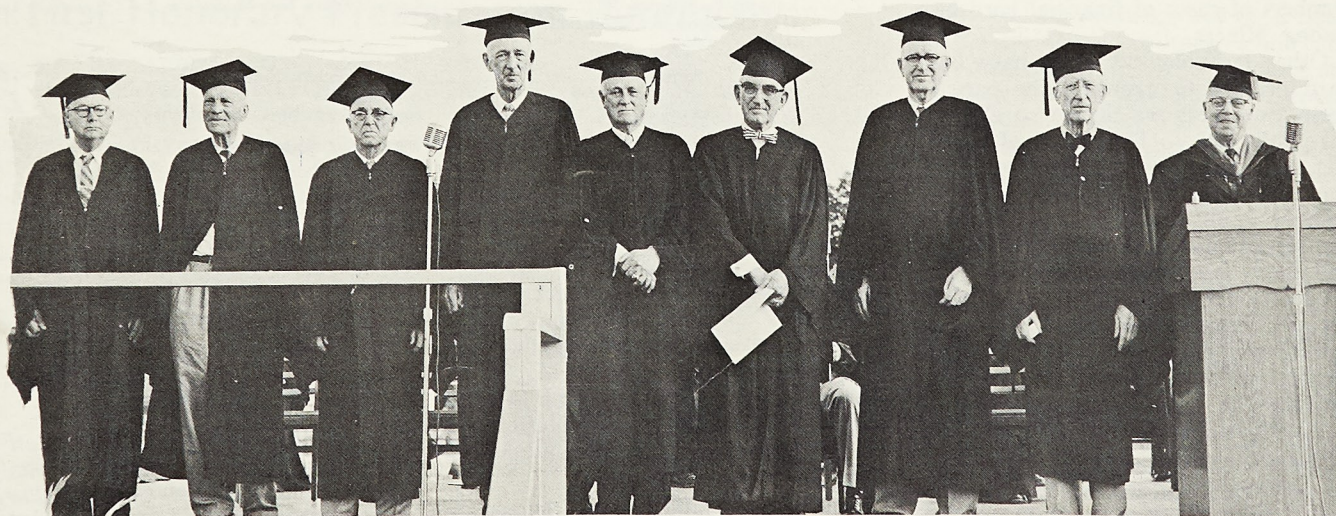
MISSOURI SCHOOL OF MINES AND METALLURGY  
ROLLA, MISSOURI

## Honored at Commencement

*(See Story on Page 3)*



*Receive Honorary Degrees—Left to right: Harold A. Krueger '42, Ronald O. Swayze '20, Carl H. Cotterill '40, Harry H. Kessler '24, Harold J. Bruegging '32, John P. Soult '39, Alfred A. Boyle '25, Donnell W. Dutton '35, William K. Schweickhardt '28.*



*Recognition Awards to Fifty-Year Alumni—Left to right: Earl M. Smith, William McElroy, Frank B. Loveridge, Hammond Ladd, George A. Easley, James C. Compton, Ernst L. Chamberlain, H. G. S. Anderson, Dean Curtis L. Wilson.*



## President's Column

We have just left the ground and are climbing with what appears to be ridiculous ease through some rather nasty looking thunderclouds toward "a more comfortable cruising altitude." Perhaps it is because I do not enjoy "rough riding" on land, sea or air that I want to reminisce about earlier commercial flights at almost hedge-hopping altitudes through rain, snow, squalls and the like.

Everything in our generation has moved so fast that we seem to be swept along on the tide and too seldom stop to reflect on the almost unbelievable advances which have been made. We are all touched daily by the transportation and communications media and take the tremendous advances—which actually make the nearly impossible commonplace—extremely matter-of-factly. A little thought, however, should convince any of us that the jet engines powering this flight are just about as much superior to the old radial piston type engines of the Ford Trimotor days as Henry's Tin Lizzie was superior to the ox cart.

How many of you, who only ten years ago or longer, sweated out a long distance call to the O. A. O. for a week end date or to "the folks" for a little extra cash, would have believed that today anyone in Rolla can direct dial any telephone in the U. S.? It is now (or soon will be) an actuality and is regularly smoothing the rigorous road of true love and preventing untold numbers of cases of financial hardships among Miners.

Other technological fields have been hard pressed to maintain the pace of these two areas which are so close to the public fancy. They have, of course, met the challenge and, in some instances, have seemed to spurt ahead. Neither could have gone far without the tremendous metallurgical advances and those were dependent on the miners for better grades of all ores. Without the chemicals, the civils, ceramists, petroleums, et al; the electricals and mechanicals would have been unable to produce the modern miracles in communications and transportation.

We as engineers should take particular pride in these tremendous advances of our time for they have all been the direct result of ingenuity and technology of our kind—the engineers. As M. S. M. graduates we can even take greater pride for many of our fellow

## MSM Alumni Association

OFFICERS		Term Expires
President.....	Melvin E. Nickel '38.....	1959
	International Harvester Co. Wisconsin Steel Division 2701 East 106th Street Chicago 17, Illinois	
Executive Vice-President.....	Paul T. Dowling '40.....	1959
	1400 South 2nd St. St. Louis 4, Missouri	
Vice-President Areas 1, 2, 3.....	S. Allen Stone '30.....	1959
	P. O. Box 28 Fort Wayne, Indiana	
Vice-President Areas 4, 5, 6.....	J. W. Stephens '47.....	1959
	Lee's Summit, Missouri	
Vice-President Areas 7, 8, 9.....	Barney Nuell '21.....	1959
	3440 Wilshire Boulevard Los Angeles, California	
Secretary-Treasurer.....	Leon Hershkowitz '41.....	1959
	1300 Powell Rolla, Missouri	
Executive Secretary.....	Francis C. Edwards.....	
Editor, "MSM Alumnus"	MSM Alumni Association Old Metallurgy Building Rolla, Missouri	

DIRECTORS AT LARGE		Term Expires
Mervin J. Kelly '14.....	463 West Street, New York 14, New York	1959
James W. Stephens '47.....	Lee's Summit, Missouri	1959
Rex Williams '31.....	504 East 5th Street, Rolla, Missouri	1959

Area No.	Director	States Embraced	Term Exp.
1.....	Howard J. Teas '17	New England, N. Y., N. J., East Pa., 125 Church Street, Malvern, New York	1958
2.....	J. C. Salmon, Jr. '22	S. Ark., N. C., S. C., La., Miss., Box 967, Minden, Louisiana	1960
3.....	O. W. Kamper '35	W. Va., Ohio, W. Pa., Ky., Tenn., 608 Villevista, Pittsburgh 34, Pennsylvania	1960
4.....	J. Walter Wallace '48	N. Ill., Chicago Industrial Area 18455 Stedhall, Homewood, Illinois	1960
5.....	C. C. Palmer '40	S. Ill., E. Mo., N. Ark. 1641 Andrew Drive, St. Louis 22, Missouri	1958
6.....	Joseph E. Scally '31	Iowa, W. Mo., Neb., Kan., Okla. P. O. Box 1655, Tulsa, Oklahoma	1959
7.....	Kenneth F. Anderson '42	Texas, Arizona, New Mexico 1114 Commerce St., Room 1909 Dallas 2, Texas	1958
8.....	Harvey L. Tedrow '11	Idaho, Montana, North Dakota, Olin Hotel Nevada, Utah Denver, Colorado	1960
9.....	Barney Nuell '21	Washington, Oregon, California 3440 Wilshire Boulevard Los Angeles, California	1958

alumni have had such a direct part in all phases of these developments. I am sure that all of us have participated—at least on the fringes. M. S. M. therefore, has in itself been an integral part of this technological revolution and is justly proud of its alumni and its own position.

The greatest minds of our day assure us that the progress of the past twenty-five years is nothing compared to that which will be made in the next twenty-

(Continued on Page 3)

# 2500

## MSM Alumnus

*Issued bi-monthly in the interest of the graduates and former students of the School of Mines and Metallurgy. Subscription price, \$1.50, included in Alumni Dues. Entered as second-class matter Oct. 27, 1926, at Post Office at Rolla, Mo., under the act of March 3, 1879.*

MSM Alumnus



## Eight 1909 Graduates Return to Campus for Fifty-Year Recognition at Commencement

EACH YEAR at the annual commencement, the class of fifty years ago is honored and the living members of the class are presented with a 50 Year Recognition Award. The class members are encouraged to return to the campus for this occasion and personally receive the Award.

In 1909 there were thirty-five graduates from the School of Mines. Fifteen of this group have died. We do not know the present address of three of them if they are still living. Of the seventeen still living, eight of them returned for the Fiftieth Anniversary of their graduation. One other, Arthur L. Pollard, had been making plans to attend this outstanding occasion but he became ill and did not survive two major operations and succumbed, May 20, 1959.

Those rugged '09-ers who did return were: H. G. S. Anderson, Muskogee, Oklahoma. Mr. Anderson and his sons operate a mining and metallurgical engineering firm; Ernst L. Chamberlain, Olivia, Minnesota. He is still active in his firm of consulting engineers, Central Engineering Company; James C. Compton, McMinnville, Oregon. Mr. Compton has his own contracting and construction company in which he is active. George A. Easley, Morristown,

New Jersey. Mr. Easley has his office at One Wall Street, New York, N. Y., dealing in mining properties and securities; Hammond Ladd, North Terrytown, New York. Mr. Ladd, the son of George Edgar Ladd who served as Director of the School of Mines from 1897 to 1907, heads the construction division of United Parcels, Inc., New York, N. Y.; Frank F. Loveridge, Sappington, Missouri. Mr. Loveridge is retired. William McElroy, Alameda, California, Mr. McElroy is also retired; Earl M. Smith, Jackson, California, a former mining engineer is retired. Seven of these Miners brought their wives with them. Mrs. McElroy passed away a number of years ago.

While in Rolla the Class of 1909 was honored at a buffet luncheon at Rayl Hall given by the Alumni Association; John and Blanche Bowles gave a reception for the Class at their country home at Lake Spring and there were numerous other informal parties and dinners. The School was honored to have these alumni on the campus again and we hope they found their visit most pleasant and enjoyable. We enjoyed having them and may their next visit be not long delayed.

## Nine Alumni Receive Professional Degrees In First Honorary Presentation Ceremony

AT THE EIGHTY-SIXTH ANNUAL COMMENCEMENT held May 31, nine alumni of MSM were awarded honorary professional degrees. This is the first year for granting the professional degree as an honorary degree at MSM. The recipients of these degrees appear in the picture on the front cover of this issue of the MSM ALUMNUS.

The degrees awarded and the alumni receiving them were as follows:

Engineer of Mines: Harold A. Krueger '42, Manager, National Lead Company, Fredericktown, Missouri, and Ronald O. Swayze '20, Vice-President-Director of Production, General Petroleum Corporation, Los Angeles, California.

Metallurgical Engineer: Carl H. Cotterill '40, Assistant to the President, American Zinc, Lead and Smelting

Company, St. Louis, Missouri, and Harry H. Kessler '24, Partner, Sorbo-Mat Process Engineers, St. Louis, Missouri.

Civil Engineer: Harold J. Brueging '32, Senior Engineer, Gas Department, Missouri Power and Light Company, Jefferson City, Missouri, and John P. Soult '39, President, Fruin-Colnon Contracting Company, St. Louis, Missouri.

Mechanical Engineer: Alfred A. Boyle '25, Vice-President-Operations, Laclede Steel Company, Alton, Illinois, and Donnell W. Dutton '35, Director, Daniel Guggenheim School of Aeronautics, Georgia Institute of Technology, Atlanta, Georgia.

Ceramic Engineer: William K. Schweickhardt '28, Vice-President Walsh Refractories Company, St. Louis, Missouri.

## 163 Exhibits Displayed At Third Science Fair

The Third Annual South Central Missouri Science Fair sponsored by the School of Mines and the Rolla Daily News was held on the MSM campus, April 16. This joint Science Fair and Engineers' Day attracted more than 3,000 students, teachers and spectators to Jackling gym to witness the 163 exhibits from 18 high schools in central Missouri. This was an increase of 30 exhibits over last year.

The grand prize, carrying a \$50.00 cash award and a trophy, was won by Bill Warren, of Rolla High School, whose father, Richard Warren, is on the staff in the Physics Department at MSM.

Bill's exhibit, entitled, "Observations on a Human Skeleton," was a skeleton of an early American Indian which he and 17 others unearthed in a cave on the Gasconade River.

The second over-all prize went to Larry Edwards and Alvin A. Scheidegger, of Hermann High School, for their exhibit in physics of "Conic Sections and Quadric Surfaces."

The third prize was won by Robert Rex Moran, of Carthage High School, with his "Experiments with a Static Accelerator." This exhibit also won him a \$170 Scholarship to MSM.

## President's Column

*(Continued from Page 2)*

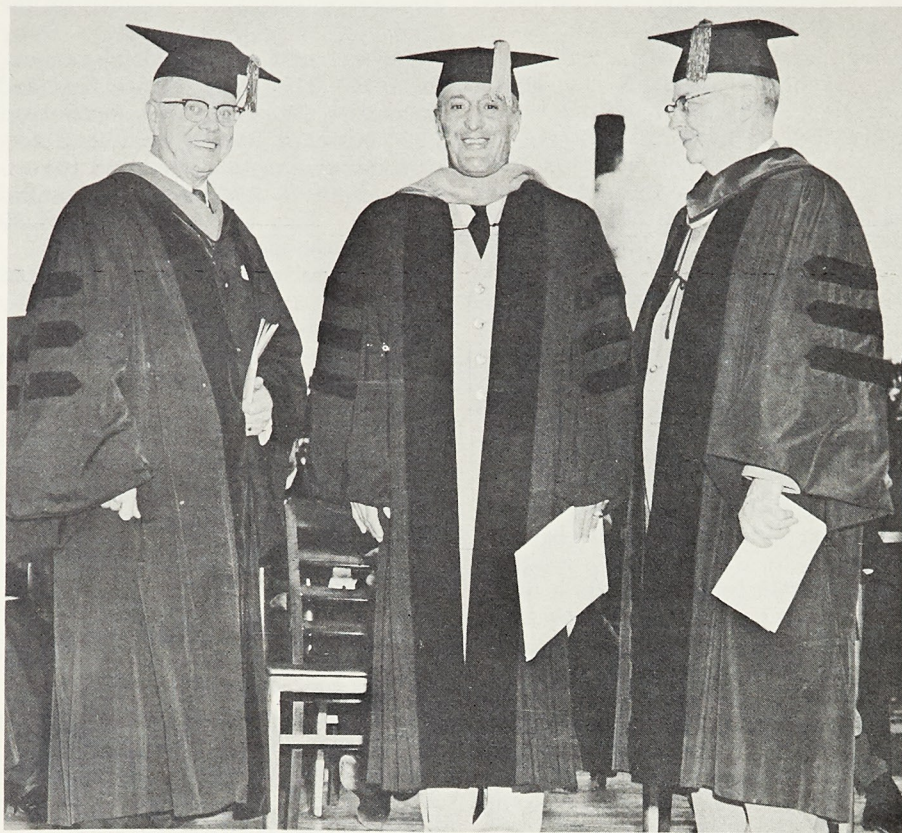
five. Thus, a challenge has been issued to the engineering colleges of our country to continue to prepare young men to carry our free world to even greater achievements. M. S. M. being far from the least of these engineering colleges must, therefore, continue to progress, for to stand still now, more than ever before in history, is to regress.

The Alumni Association is pledged and dedicated to supporting such progress. The Association can do only what you as an individual member make it possible for it to do. Are you doing not only "your part," but all you can do—both physically and financially? The future fate of all humanity could conceivably partially rest on what we individually and collectively do in helping to meet the challenge.

P. T. Dowling '40  
Executive Vice President  
MSM Alumni Association  
Guest Columnist



## Maj. Gen Emerson C. Itschner Tells Graduates They May Help Bring Dream World to Reality



*Dean Curtis L. Wilson, Major General Emerson C. Itschner, President Elmer Ellis of the University of Missouri.*

"Never before has the graduating scientist and engineer been given such an opportunity and challenge. For it will be the engineer who will convert the exciting dreams of the future into reality," Major General Emerson Charles Itschner, Chief of Engineers, U. S. Army, told the graduates of MSM in his address at the Eighty-sixth Commencement May 31, using as his subject "The Engineer of the Future."

"Without the engineer," General Itschner said, "none of the visions of the future would come true. The vast dams, the far-flung transportation systems, the growing urban complexes—all of these are translated into reality through the efforts of engineers. Never before have the engineers of the world had such a multitude of brilliant, imaginative new concepts to satisfy. Which one of you will construct the first struc-

ture on the moon? This may sound like science fiction, but it is a realistic challenge to the engineer, because it will be done in your time. Of such ingredients will the tasks of the engineer of the future be made."

General Itschner referred to two recent experiences to illustrate his points. "The first," he stated, "was a little device that could be carried easily in one hand that was generating electricity directly from a radioisotope. Polonium 210. For demonstration purposes, it was connected to two extremely small electric motors that operated the propellers of a model airplane. The generator had no moving parts and it was extremely simple—merely a capsule containing the radioisotope and a few thermocouples. Obviously this was just a toy, but imagine what a future lies before the engineer in developing and applying this simple device.

"The second was at the other end of the scale in size, the facilities which we are building in California to launch the huge Tital missile. I must admit that the launching I last witnessed was not a success—in fact, it was reported by the press as an engineering failure. You have probably noticed how when a missile fires perfectly it is described as a scientific achievement; when something goes wrong it is an engineering failure. These two events indicate the range and promise for the engineer in the atomic space age on the threshold of which we stand today. It is worthy of note that the range includes the two extremes of our comprehension—the atom complex and the galaxies of space, which have many characteristics in common in spite of their disparity in scale. Let us examine some of the specific problems to be faced. Nuclear power came into being as a tool of war. Military engineers are still concerned with the use of atomics in warfare, both in employing the vast destructive power of atomic munitions in combat and in the production of nuclear power for Armed Forces use. We recently refueled our Corps of Engineers 2000 kw nuclear power plant at Fort Belvoir after two years of operation. We had to replace 11 pounds of uranium. To produce the same amount of electricity with diesel oil would have required 1,600,000 times that amount of fuel. Think what that means in supplying remote installations in the Arctic. We now preserve foods by irradiation much more satisfactorily than by dehydration or even freezing. I must admit that the process is not very successful with beef; an irradiated steak looks and smells like a wet dog. Soon we shall use nuclear explosives to accomplish all manner of excavations, such as harbors and canals.

"We have also entered the space age with its tremendous challenge to the engineers of the future," the General continued. "There is the problem of constructing the space vehicles themselves, as well as that of constructing structures on other celestial bodies in which men from earth can exist and function. Finally, perhaps within our time, comes the problem of developing means of utilizing the resources of the moon and other planets. The first of these problems, the building of space vehicles, absorbs the time and energy of many brilliant engineers right now, from the electronics engineers, designing the guidance systems, to the mining



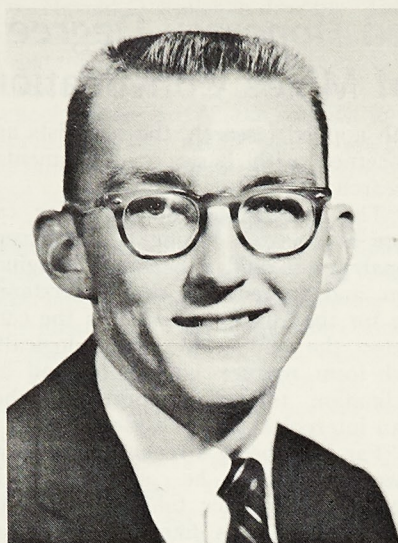
engineer, trying to develop cheaper and better ways of obtaining the rare metals these space vehicles require.

"The engineer of the future will be a man of varied talents and interests, from the prosaic to the exotic. However, his brilliant achievements will come not from accomplishing those tasks he has been taught to deal with, but rather from mastering those he has not been taught to handle—the new and different things with which the world confronts mankind. The mastery of these uncommon, exceptional tasks of the future requires the uncommon, exceptional man of whom the nation never has enough, yet of whom the seeds lie in each of you. You as the engineer of the future must be an uncommon man, a man who can and does master problems he has not been taught to handle. Such men are like rare jewels, and will always be eagerly sought after. Each of you has the opportunity to become one of them, if you will. In your hands the capabilities of mankind can be limitless."

As a feature of the Commencement, Dean Curtis L. Wilson, with the approval of the faculty, presented General Itschner to Dr. Elmer Ellis, President of the University of Missouri, who conferred upon him the honorary degree of Doctor of Engineering.

## Russell Van Cochran At Top of Class of '59

Russell Van Cochran, Jr., son of Mr. and Mrs. R. V. Cochran, of West Plains, Missouri, headed the senior class at MSM with the highest honors. Russell has been an outstanding student during his four years on the campus. The first year the Missouri School of Mines Alumni Association Scholarships were awarded, one was granted to Russell because of his scholastic promise. He received the A. P. Green Gold Medal as the outstanding senior of the class, the medal award being based not only upon scholarship but also upon various student activities while in school. Among the activities he participated in and honors he has received were: on the Honor List every semester in school; won the Sigma Pi Sigma Sophomore Award in Physics; President of Tau Beta Pi; elected to Phi Kappa Phi; elected and served as president of Sigma Pi Sigma; listed in Who's Who Among College Students;

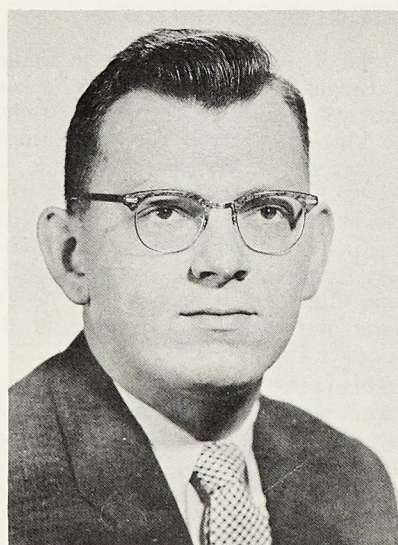


*Russell Van Cochran, Jr.*

won the Gold Key Award for outstanding scholarship and served as a student assistant in the Mathematics Department.

Russell has received a Fellowship and he will enter the graduate school at the University of Illinois this fall.

## Ronald E. Volker Receives Science Foundation Grant



*Ronald E. Volker*

Ronald Edward Volker '59, a graduate in Civil Engineering at MSM, was one of the fifteen students of the University of Missouri to receive a National Science Foundation Cooperative

Fellowship for advanced study. The NSF awarded 1,100 graduate fellowships throughout the nation.

The Cooperative Fellowship provides for stipends up to \$2,200 for a student attending the regular academic year. The Foundation will also pay the University fees for each of the students and reimburse the University for some of the cost of usual research facilities.

Ronald was an honor student in the Civil Engineering field at MSM and was awarded the Enoch Needles Scholarship in Civil Engineering during his senior year. He will continue his graduate work in this field at MSM during the academic year 1959-60.

## Hardebeck Gets Fellowship To Continue Graduate Study

Harry Hardebeck '58, who is now in the graduate school of Cornell University, Ithaca, N. Y., was among 42 graduate students at the University of receive a National Science Foundation Cooperative Fellowship. This Fellowship provided by the government and administered by participating universities, includes the payment of tuition and a stipend of \$1650 for the 1959-60 academic year.

Harry will use the fellowship to continue study in the field of radio wave propagation under the direction of Electrical Engineering and Engineering Physics.

## Retires After 33 Years With PanAm Petroleum

Albert Louis Ackers '22, pioneer in West Texas geological development, retired from Pan American Petroleum Corporation after 33 years of service. He plans to return to his native Staunton, Illinois, where he and Mrs. Ackers have purchased a home.

Mr. Ackers began work with Southern Crude Oil Purchasing Company, a predecessor company, in May 1926 at San Angelo, Texas, and soon was made District Geologist at Midland, Texas. He served in various geological capacities at Fort Worth, Texas and Tulsa, Oklahoma before returning to Fort Worth in 1950 as senior geologist.

Employees of Pan-Am presented Ackers with a table saw and motor to assist him in remodeling his new homestead.



## J. Bruce Clemmer Awarded Honorary Degree At South Dakota School of Mines Convocation

J. Bruce Clemmer who received his Master of Science degree at MSM in 1928, and is now Chief of the Metal Division, Region III, U. S. Bureau of Mines, in Salt Lake City, Utah, was awarded an Honorary Doctor of Engineering degree at the eighth annual Honors Day Convocation at South Dakota School of Mines and Technology, April 13, 1959. Mr. Clemmer received his bachelor degree at South Dakota Mines in 1927.

He holds numerous patents on concentration of various ores and non-metallics. And he was presented a distinguished service award by the Bureau of Mines in 1956 in recognition of his



*J. Bruce Clemmer*

"outstanding scientific and technical service in the Bureau of Mines."

Mr. Clemmer gave the Honors Day address speaking on the subject, "Research as a Career," emphasizing the three fields of research to be considered by students; in industrial laboratories, private research institutions, and in governmental laboratories. And the importance of research today, but warned them of the "work that may be exasperating or exhilarating, often naggingly frustrating, seldom simple and easy and seemingly endless." He told the students to examine the work of research technologists and research scientists, pointing out that the technologists are chiefly concerned

with applied research, the scientists are concerned with basic or fundamental research.

"The important and rewarding careers in research belong to the exceptional person and a balanced imagination, and appreciation and understanding for the abstract as well as the concrete; the ability to reason logically and form mature judgments, and an inclination toward exploration rather than interpolation," he added.

"Far from being a recluse in an ivory tower from which he communicates in Sanskrit," Clemmer told the students, "the researcher is likely to be 'more normal than blueberry pie.'"

Researchers, according to Clemmer, cannot move backward, nor stand still. Graduates of today and tomorrow will be as capable to attacking and solving their problems as the graduate of yesterday was prepared to contribute to the science of his day.

Senator Francis Case, of South Dakota, was awarded an Honorary Doctor's Degree of Humane Letters at this Honors Day convocation.

## Ceramics Department Receives Honors

John F. Mitchell, a senior in Ceramic Engineering, received the second place award in the 13th Annual Student Speaking Contest at the 61st Annual meeting of the American Ceramic Society in Chicago, Illinois. In presenting his subject "A Mechanism for the Bloating of Shales and Clays," Mitchell was competing with representatives from fifteen other schools and departments of Ceramic Engineering in this country.

This is the second consecutive second place award to the School of Mines. Last year's second place winner was Delbert E. Day '58, now a graduate student at Pennsylvania State University.

This was the first year the Department of Ceramic Engineering had a successful entry in the annual Ferro Student Paper Contest. The paper entitled "The Influence of Particle Size of Stains Upon the Color of Porcelain Enamels" by Eugene L. Rusert, was selected for the fourth prize in the na-

tional contest which has been sponsored for the past ten consecutive years by the Ferro Corporation of Cleveland, Ohio. The five best papers are selected each year from a large number submitted by undergraduate students in both the United States and Canada.

During this national meeting, Dr. T. J. Planje '40, Chairman of the Department of Ceramic Engineering, MSM, was elected president of the American Ceramic Educational Council. He was also appointed to the Education Committee of the American Ceramic Society for a three-year term and the Research Committee of the Basic Science Section of the Society.

## Elfred Heads Board of National Coal Association

F. Stillman Elfred '17, Chairman of the Board, Peabody Coal Company, St. Louis, Missouri, has been elected chairman of the board of the National Coal Association. Mr. Elfred was elected at the annual convention of the Association in Washington, D. C.

Dr. Elfred was awarded an honorary Doctor of Engineering by his alma mater in 1955. Prior to his present position, Mr. Elfred was executive vice president of Olin Mathieson Chemical Corporation and he retired from service with that company two years ago.

## Don Roloff Co-Authors Study on Hot Topping

Don V. Roloff '51, is co-author of "A Study of Hot Topping Practice" which the National Open Hearth Steel Committee, of the American Institute of Mining and Metallurgical Engineers selected for the 1959 Conference Award. His collaborator was K. V. Smith, of the U. S. Steel Corporation.

The work reported was undertaken at the Gary Steel Works in an effort to evaluate methods for reducing the hot-top volume of "killed" steel ingots by improving "sinkhead efficiency."

The study was primarily intended to evaluate various hot-top covering materials; however, such factors as transit time and the refractory living material were also investigated. It was shown that hot-top efficiency can be significantly improved through the use of a covering which will minimize heat transfer from the top and can be furth-



er improved by employing an insulating brick lining and sufficient time in transit to insure complete solidification of the ingot before removal of the hot-top.

Don joined the U. S. Steel Corporation in 1953, as a ceramic engineer, and still serves in that capacity. His home address is Box 715, Ogden Dunes, Gary, Indiana.

### **Four Holders of First Alumni Scholarships Graduate With Honors**

At the beginning of the 1955-56 school year the first MSM Alumni Association scholarships were awarded to six freshmen entering MSM. At the recent Commencement, Bachelor of Science degrees were presented to four of the recipients of the first scholarships. The graduates were: Russell Van Cochran, of West Plains, Missouri; John Crecelius, of Sedalia, Missouri; Kenneth Howard, of Bethalto, Illinois; and Donald W. Thoms, of Perryville, Missouri.

Elsewhere in this issue of the MSM ALUMNUS you will note that Russell V. Cochran, who received his degree in Physics, was the top-honor graduate.

John Crecelius, a Mechanical Engineering graduate, has accepted a position with the Naval Ordnance Test Station, China Lake, California, as a Junior Engineer.

Kenneth Howard, a Chemical Engineering graduate, is not certain of his employment as we go to press.

Donald Thoms, a graduate from the Electrical Engineering Department is going to Seattle, Washington, where he will be employed at the Boeing Aircraft Company.

Each of these students has made a fine record at MSM. The Alumni should take pride in their contribution in assisting four potential engineers in securing their formal training and their record thus far has been a compliment to the profession.

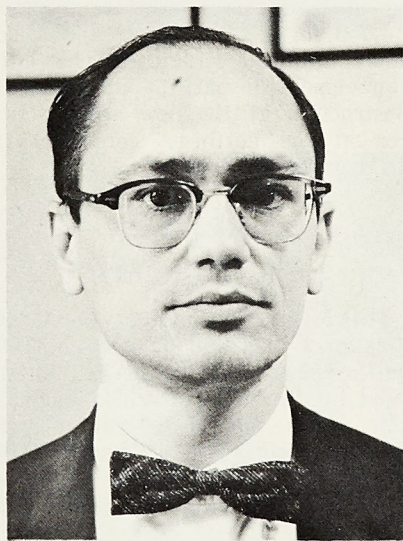
### **500 Students Enrolled For Summer Session**

An even 500 students have enrolled for the summer session at MSM. In addition to the regular college students there is a total of 83 students enrolled under the National Science Foundation Summer Institute for teachers of which

Dr. Harold Q Fuller is director. Under another National Science Foundation Program, directed by Professor C. R. Remington '49, 34 outstanding high school juniors are on the campus for an intensive seven weeks course designed to familiarize them with the engineering and science field.

Also there will be four paint short courses conducted during the summer under the direction of Dr. Wouter Bosch of the Chemical Engineering Department. The first of the short courses started on June 8 with an enrollment of 42 of whom 21 are from the U. S. Air Force sent here for special training. The other 21 are civilians. One of the Air Force trainees came from Iceland to attend the course. The enrollment for the other three short courses has not been determined but will be about the same as that for the starting course.

There is a total of 33 faculty members handling the summer session teaching with three graduate assistants.



*Dr. Rubens S. Ramalho*

### **Dr. Ramalho to Teach In Ecuador Universities**

Dr. Rubens S. Ramalho, Associate Professor of Chemical Engineering, has been awarded a Fulbright Fellowship to help establish two Departments of Chemical Engineering in Ecuador, South America. Dr. Ramalho will be in Ecuador from September 1959, to August 31, 1960.

Dr. Ramalho will teach in both the University of Guayaquil and at the

University of Quito. Attention will be focused, first, on the beginning Chemical Engineering courses as embodied in Stoichiometry, material and energy balances and second, on fluid mechanics, heat transmission and thermo-dynamics. Simultaneously, with class lectures, the laboratory will be built up with equipment that can be secured.

Intensive courses in the fundamentals of Chemical Engineering will be offered to a small number of faculty and promising young graduates, as well as courses within the universities.

Dr. Ramalho will spend the summer of 1959 in Syracuse, New York, working with the General Electric Company prior to his departure for South America. Dr. Ramalho was born in Brazil and received his undergraduate training there. He has been in this country since 1946. He received both his Master of Science and Doctor's degrees from Vanderbilt University, where he was a member of the staff of the Department of Chemical Engineering.

He has had over three years of industrial work as a chemical engineer, designing oil refineries prior to joining the MSM staff. During the summer of 1959, he was employed by McDonnell Aircraft, working on the IBM 650 Computer. He is married and has two children.

### **AEC Research Grant To MSM Is Renewed**

Dr. M. E. Straumanis, Research Professor of Metallurgy and Dr. W. J. James, Associate Professor of Chemistry, have been given a renewal of a research contract with the Atomic Energy Commission for \$12,000, to continue studies on corrosion of nuclear metals. This brings the total of AEC support of this project to more than \$43,000.

Wayne Custead '57 and James W. Johnson '57, of the Chemical Engineering Department and Dr. T. Ejima and John Ratliff of the Metallurgical Engineering Department will assist with the project during the summer and the coming school year.

At the invitation of the AEC, Dr. James attended the AEC Solid State Metallurgy Conference, at the University of California, Berkeley, June 17-19, to report on the progress and future plans of the research program. Many prominent investigators were present



from universities such as M. I. T., Cal. Tech., Penn State, Carnegie Tech., etc.

The prominence of Dr. Straumanis in X-ray precision lattice parameter determinations as well as in corrosion studies has resulted in an invitation to speak on his work at the International Union of Crystallography held in Stockholm, Sweden, June 8-12. The world's top authorities participated at this international gathering. And the invitation is indeed an honor to Dr. Straumanis and the School of Mines.

The trip was sponsored by the National Science Foundation, the International Union of Crystallography and MSM.

## Kratzer Is Director Of Student Union

William T. Kratzer, who has been program director of the Student Union on the Columbia campus since July 1, 1957, has been promoted to the new position of Director of the Student Union on the Rolla campus.

Mr. Kratzer was transferred to Rolla on May 1, to aid in planning and supervising installation of furnishings and equipment in the new MSM Student Union, which is scheduled to open this fall.

Mr. Kratzer lived in Rolla for four years immediately prior to his appointment on the Columbia campus in 1957. He was employed as a civilian educational adviser and counselor for the U. S. Army at Ft. Leonard Wood.

In his new position he will direct the complete operation of the Student Union including part responsibility for the soda fountain and snack bar food service. His immediate efforts will be toward acquisition of furnishings and equipment and their installation, and selecting and training a staff for operation.

Mr. Kratzer is a native of Clinton, Mo. He received his B. S. degree in Education from the University of Missouri in 1950 and served two years as counselor at West Plains (Mo.) High School. He is a veteran of World War II serving in the U. S. Navy from 1944 to 1946. He is married to the former Wanietia Clark of Clinton, Mo. They have one child, a daughter, Paula.

2500

## MSM Gets Nearly 3½ Millions for '59-'61

The regular session of the Missouri legislature ended May 31 and the appropriations from the general revenue funds were completed before adjournment. Almost all state agencies received increases over allocations for the present biennium which ends June 30, but the final recommendations were from 3 to 5 per cent below Governor James T. Blair's original budget.

MSM will receive \$3,411,922 for general operations during the next biennium. Governor Blair in his budget requested \$3,517,445.

A capital improvement budget of Governor Blair, once feared dead in the General Assembly because of the squeeze on money, came out of the final hours of the legislature with a lot of life. From this capital improvement budget the School of Mines received an appropriation of \$50,000 for a building to house its nuclear reactor and \$34,000 for a storm sewer and underground drainage structure. This latter improvement is part of the necessary construction at the new athletic field area at the northeast corner of the MSM golf course.

## Dowell Grant-in-Aid Program Benefits MSM

The Missouri School of Mines and Metallurgy was one of ten schools in the United States and Canada that benefited by Dowell, Tulsa, Oklahoma, in their grant-in-aid education plan. Checks totaling more than \$10,000 were sent to the Engineering and Chemistry Departments of the colleges and universities for use during the 1959-1960 school year. The money is to be used by the department head for the benefit of the department. Dowell places no obligation on the department or college as to the final disposition of the fund.

The schools benefiting from the Dowell program are: Oklahoma State University, Tulsa, University, University of Oklahoma, Kansas State U., Kansas U., Louisiana State U., Texas U., Missouri School of Mines and Metallurgy, University of Wyoming and University of Alberta.

Dowell's education program is now in its fourth year, and present plans

are to continue the grants-in-aid project indefinitely. Mr. John B. Stone, Administrator of Dowell's aid to education program, states, "We believe that making the contribution to the department to be used in the best possible manner to the benefit of the department is a program that ought to be considered by others. Our contributions have no restrictions on them. They have been used to purchase equipment, special student grants, to send students and college instructors to technical meetings and for the purchase of books and other needed items."

## SAME Students Make Plane Trip to Mississippi

Nineteen members of the Student Post, Society of American Military Engineers visited the U. S. Army Engineer Waterways Experiment Station and other Engineering activities in Jackson and Vicksburg, Mississippi, on a two-day field trip in April.

The group, accompanied by Captain Harold F. Sherman of the Military Department, traveled in an Air Force C-47. This was one of the first flights from the new Rolla National Airport.

The highlight of the trip was the visit to the scale model of the Mississippi Basin, where the students were impressed with the work and responsibilities of the Corps of Engineers in the field of flood control.

## 501 Degrees Awarded At Commencement

At the 86th Annual Commencement there were five hundred and one degrees awarded the candidates. Of this number, 464 were Bachelor of Science degrees; 27 Master of Science degrees; 9 Professional degrees and one Doctor of Engineering—Honoris Causa. The Electrical Engineering Department awarded 104 bachelor degrees; Civil Engineering, 100; Mechanical Engineering, 98; Metallurgical Engineering, 46; Chemical Engineering, 43; Mining Engineering, 45; Bachelor of Science, 24; Ceramic Engineering, 4.

In the R. O. T. C. unit, there were 110 members of the graduating class that were appointed Second Lieutenant, United States Army Reserve. The R. O. T. C. unit at MSM is still the largest engineering unit in the United States.

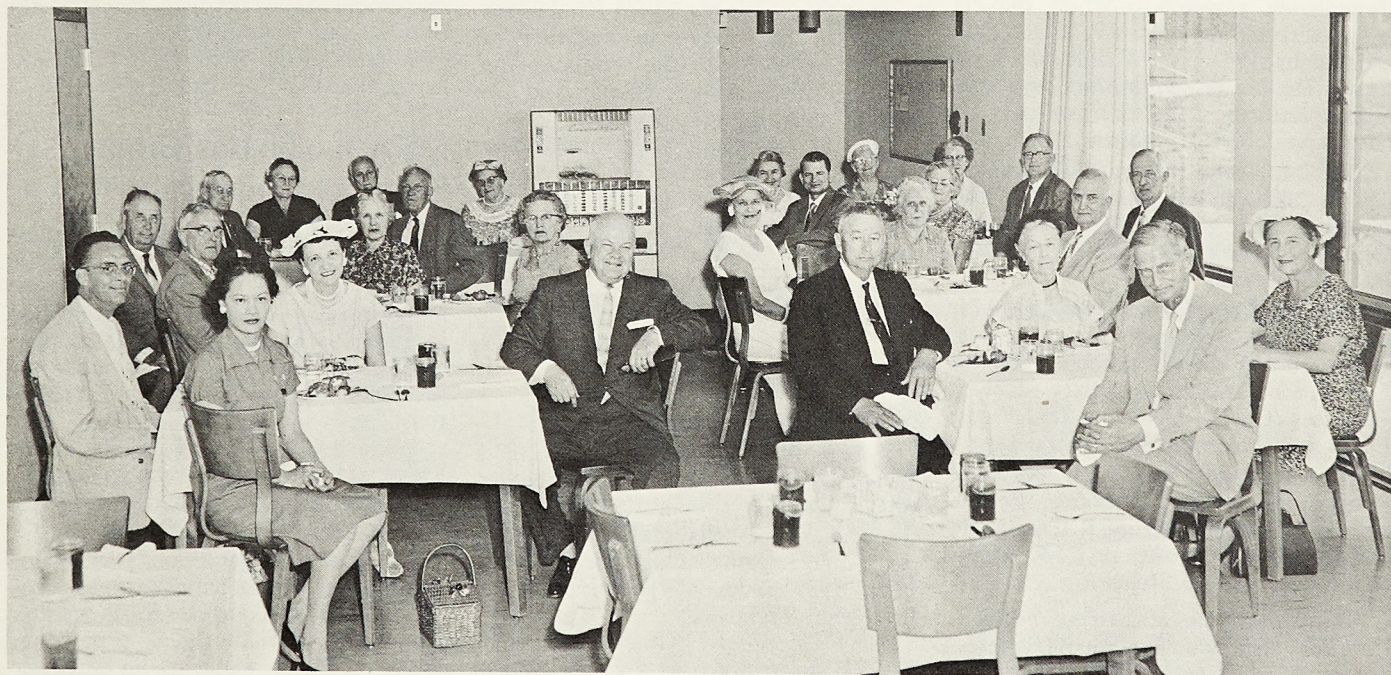
MSM Alumnus



## 50-Year Graduates Are Honored



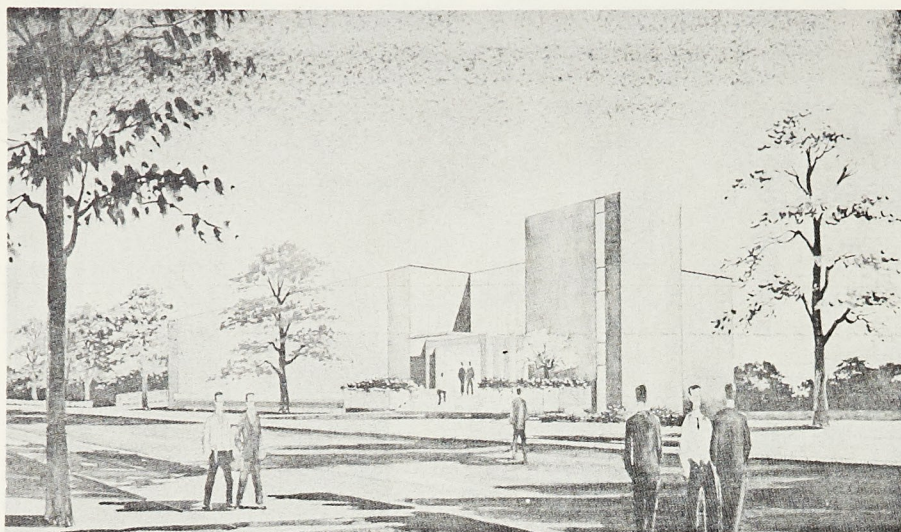
*Members of the Class of 1909 who attended the reception at the John Bowles home: L. to R., E. L. Chamberlain, E. M. Smith, G. A. Easley, E. McElroy, F. R. Loveridge, J. C. Compton, Philip S. Judy, and H. G. S. Anderson.*



*Members of the Class of 1909 and their guests at a luncheon given for the class by the MSM Alumni Association at Rayl Hall during Commencement. Back table to left (clockwise): John Bowles, Mrs. Bowles, George Easley, W. McElroy, Mrs. Easley. Middle table, left: P. Judy, F. Loveridge, Mrs. Judy and Mrs. Loveridge. Front table, left: Professor Remington, Mrs. Edwards, Ike Edwards, Mrs. Remington. Back table, right (clockwise): Mrs. Rolla Wade, Mrs. E. R. Wade, Mr. Chamberlain's niece, Mr. Chamberlain, Mrs. Chamberlain. Middle table, right: Mrs. Schrenk, Mrs. Ladd, Hammond Ladd, Dr. Schrenk. Front table, right: Earl Smith, Mrs. E. Smith, Mrs. Van Smith, Van Smith.*



## Pre-View of New Classroom Building



### Varied Summer Programs Under Way on Campus

Many of the MSM faculty will be busy this summer on the campus participating in the varied programs.

There is a second Atomic Energy Commission research program that is being directed by Dr. W. H. Webb, assisted by J. D. Vie. Under the Kroll Fund, Dr. A. W. Schlechten is carrying on research, assisted by Dr. A. H. Larson and M. M. Tilman.

The Monsanto Chemical Company has a research program during the summer under the supervision of Dr. George B. Clark, assisted by Professor R. F. Brusewski.

Assisting Dr. Harold Q Fuller with the Summer Institute for Teachers, sponsored by the National Science Foundation are: Dr. E. D. Fisher, Professor C. H. Denlow, Dr. F. B. Pauls and Professor R. A. Anderson.

Dr. Clark has two other National Science Foundation Programs, in one of which he is assisted by R. D. Caudle and the other by Professor C. R. Christianson and R. T. Stelloh.

Under the National Science Foundation for high school students, Professor C. R. Remington is being assisted by Professor R. V. Wolk, Dr. G. E. Leroy, Professor J. M. Brewer, Professor Peter G. Hansen and B. R. Van Nostrand. Under this program thirty-four high school juniors will be on the campus eight weeks being oriented in the field of engineering.

### Sverdrup Gets Medal Of Steel Institute

General Leif J. Sverdrup, Doctor of Engineering (Honoris Causa) '52, president of Sverdrup & Parcel, architects and engineers, St. Louis, Mo., has been awarded the Lloyd Kimbrough Medal of the American Institute of Steel Construction for "outstanding achievement in the engineering and design of steel-frame structures."

General Sverdrup is the third man to receive the award since it was established in 1938 in memory of the institute's first president. Earlier recipients were Robert Moses, New York City Parks Commissioner and Dr. David Steinman, bridge designer and engineer.

### Alger Collaborator in Petroleum Journal Article

Robert P. Alger '38, assistant field development manager for Schlumberger Well Surveying Corporation, in Houston, Texas, has collaborated in an article "Sonic Logging" that appears in the May 1959 issue of the Journal of Petroleum Technology.

Mr. Alger joined Schlumberger early in 1938 and worked as a field engineer in Louisiana and Mississippi until he became district manager at Magnolia, Arkansas in 1942. He assumed his present position in 1952.

2500

### Preliminary Plans for Two Structures Approved

The Curators of the University of Missouri have approved the preliminary plans and specifications for the proposed new classroom building at MSM. The Curators have instructed the architects, P. John Hoener and Associates, of St. Louis, Missouri, to perfect the final plans and specifications so that bids may be requested.

The three story structure will be built at the southwest corner of 14th and Pine streets, facing the north and in the area known as the Sunken Garden. The drawing illustrates the front elevation fronting 14th street. Funds for its construction were provided with a \$750,000 allotment from the State Building Bond Issue.

The University Curators also approved the preliminary plans by the same architect for a smaller building to house a new atomic power reactor and equipment near this new classroom building. With this power reactor, provided by a grant from the U. S. Atomic Energy Commission, the School of Mines will expand its nuclear power curricula. Funds for the reactor building, about \$100,000, will come partly from a State appropriation for the purpose and partly from other unincumbered funds of the University.

### MSM Junior Has Grant From Schlumberger

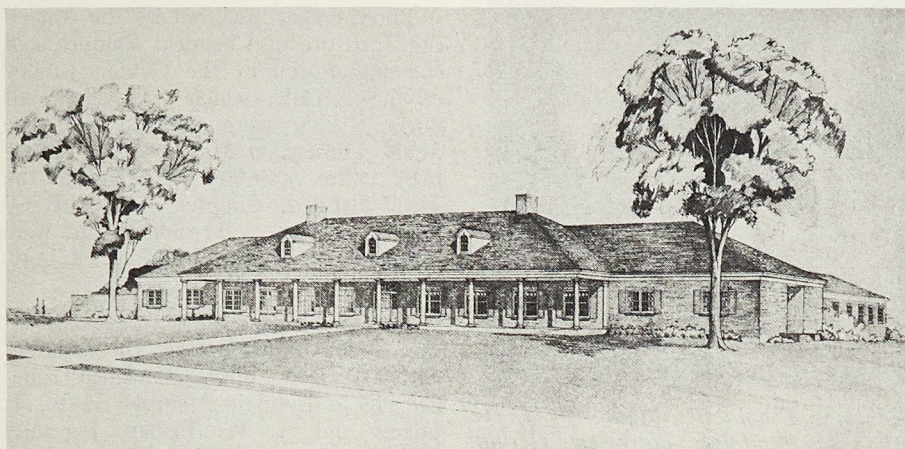
Richard Elliott Slusher, of Higginsville, Missouri, a junior at MSM, is one of the forty young scientists who are being helped to get their education in 1959-60 through \$58,200 in scholarship and fellowship grants made by the Schlumberger Foundation of Houston, Texas. Thirty-three of these were scholarships for undergraduate study. These are worth \$500 each to the students and \$500 more to their universities for a total of \$33,000.

The Schlumberger Foundation makes grants annually to universities and colleges throughout the U. S. as selected by its Board of Managers. Junior and senior students majoring in engineering or science courses are eligible for scholarships. The Scholarship Committees in the selected universities choose the students who receive the scholarships. The Foundation is a non-profit organization established in 1954 by the Schlumberger Well Surveying Corp.

MSM Alumnus



## New Kappa Alpha House to Be Ready by Fall



Construction has started on the new Kappa Alpha fraternity house being built on the new Fraternity Row on school property to be known as Nagogami Terrace. This development is located on Nagogami Road, just across Highway 66 and opposite the State Highway Patrol station.

The structure, of southern colonial style architecture, was designed by John and Neel, architects of Monroe, Louisiana. It will be of dark red brick, and the facade will feature a 110-foot veranda with ten white columns. The house will accommodate 54 members in two-man rooms. Construction is by the Maggi Construction Company, of Rolla, who have promised that the house will be ready for occupancy by the opening of school in September.

The new house is being built by the fraternity's alumni organization, headed by George A. Easley '09, New York, N. Y., President; Kenneth O. Hansen '36, St. Louis, Mo., Vice President; Albert E. Barnard '27, St. Louis, Mo., Secretary, and Michael P. Brazill '20, St. Louis, Mo., Treasurer.

Charles C. Whittelsey '22, of New York, N. Y., has served as Chairman of the Building Committee, and will be assisted during construction by George T. Dierking '24, of Monroe, La.

The beginning of construction marks the end of a ten-year building campaign successfully guided and completed by Mr. Easley, who has been president of the fraternity's alumni organization during the entire period.

## Two Deceased Graduates of 1913 Make Bequests to MSM To Be Used for Student Loans and Scholarships

Two distinguished alumni of MSM, Harry H. Nowlan '13, and Donald H. Radcliffe '13, both of whom passed away during the last six months, made generous provisions in their wills to help students of their Alma Mater.

Harry H. Nowlan died in Evansville, Indiana last December and Donald H. Radcliffe died in Palos Verdes Estates, California, in April of 1959.

Both of the alumni left their properties to their wives during their lifetime. Mr. Nolan provided that after the death of his wife, an undivided three-eighths of the assets of the trust estate shall be paid to the School of Mines as an addition to the loan funds of the School.

Mr. Radcliff provided in his will that following the death of his wife, the net income of the trust estate remaining after certain payments provided for shall be used for scholarships in Geology at MSM to be known as the "Josephine Husbunds Radcliffe Geology Scholarships."

Both men were members of the same class and both died within six months of each other. Both had attained outstanding success in their profession which dealt largely with petroleum geology in which field both were recognized as authorities.

In school Mr. Nowlan was a member of the Sigma Nu Fraternity and Mr. Radcliffe a member of Pi Kappa Alpha. Both were active in other student organizations.

In commenting upon their passing Dean Curtis L. Wilson expressed sym-

pathy for the bereaved families and regret that this country should be deprived of the services of these outstanding men. He also expressed humble appreciation that through their generosity younger men will be given an opportunity to follow in their footsteps in securing an education that will help them also to attain possibly the same success as their benefactors attained. The addition to the loan fund will make financial help available to all the student body and the creation of the scholarships in Geology will result in a long-felt need in this field, at both the undergraduate and the graduate level.

## 113 Gifts and Grants Received During Year

James A. Finch, Jr. of Cape Girardeau, president of the Board of Curators, University of Missouri, announced at Commencement the gifts and grants that have been received by the School of Mines and Metallurgy the past year ending May 15th.

The total amount received was \$180,732.21 in 113 gifts from 105 donors. The largest amount was \$60,000 for research and the second largest was \$51,000 for scholarships and fellowships.

The amount of gifts and grants is smaller than last year due to the larger grant from the Atomic Energy Commission during that fiscal year but the number of donors jumped from 70 to

## Fleischli Is Official of Bay City Bearing Co.

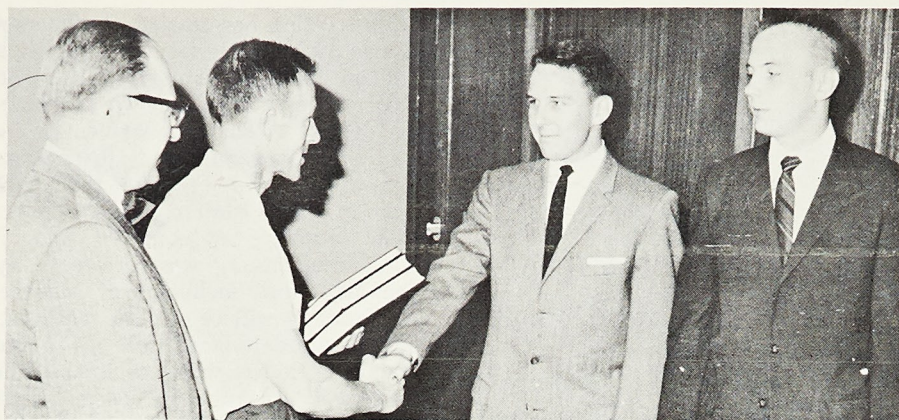
In the February 1959, issue of "Pacific Factory," there appeared a seven-page feature section on the Bay City Bearing Company, Los Angeles, California.

Jack E. Fleischli '43, is vice president, Sales, Los Angeles Division of this rapidly growing firm that was organized in 1946, specializing in the industrial plant maintenance field, and was the first to combine the stocks of bearings, chains, gears and belts. Jack was pictured with the three other officials of the company in this feature item.

105, which is indicative of a greater interest in the program of the School of Mines.



## Books Placed in MSM Library



*Presentation of AIChE books to MSM Library. From left to right: Dr. F. H. Conrad, Counselor of Student Chapter; Mr. Earl Randolph, Librarian; Gerald Stevenson, President of Student Chapter; and Risdon Hankinson, Vice President.*

## Lt. Col. Vogt, Graduate Of MSM, to ROTC Staff



*Receives a Commendation Ribbon from Major General Willis S. Matthews, Chief of the Korean Military Advisory Group in Korea. Lt. Col. Vogt was commended for meritorious service as an advisor to the Chief of Construction, Repairs and Utilities and Real Estate Division of the Office of the Chief of Engineers, Republic of Korea Army, and as Chief of the Korean Military Advisory Group's Construction and Maintenance Division.*

Lieutenant Colonel Fred K. Vogt '37, is a new member of the MSM Military Department and has been assigned as Executive Officer of the unit. Col. Vogt received his B. S. degree in Chemical Engineering and was commissioned as a Reserve Officer in the Corps of Engineers in the year of his graduation. In 1941 he was called to active duty and

he comes to MSM from Korea where he served as construction advisor to the Chief of Engineers of the Army of the Republic of Korea.

Most of his assignments have been in the field of construction engineering. Among his interesting assignments is a tour of nearly four years in the Engineer District in Turkey where he supervised the construction of military installations for NATO and the Turkish Army.

Lt. Colonel Vogt recalls that during his undergraduate years at MSM, the present Chief of Engineers, Major General Emerson C. Itschner, as a Captain, served as PMS&T. There were two officers and one sergeant in the Military Department; today there are twelve officers and nine sergeants. At the time Col. Vogt was graduated there were 254 cadets enrolled in ROTC and 15 were commissioned; today there are 1208 enrolled in ROTC and it is expected that 115 cadets will be commissioned in the U. S. Army Reserve in 1959.

### *Get Degrees from St. Louis U.*

The following MSM alumni received graduate degrees from St. Louis University at their Graduate School Commencement exercises June 6:

Milton R. Boehme, Jr. '50, received a Master of Business Administration; Ralph A. Mathews '46, Master of Business Administration; Vanagan Tatosian '51, Master of Science in Electrical Engineering and Hal G. Lankford '49, Doctor of Philosophy in Bio-Chemistry, Organic Chemistry and Microbiology.

## AIChE Student Chapter Presents Three Volumes

Three books prepared by the American Institute of Chemical Engineers in commemoration of the Golden Jubilee of the AIChE, which was celebrated during 1958, were presented to the MSM Library on May 7, 1959. These books were presented in behalf of the MSM Student Chapter of AIChE by Gerald Stevenson, President, and were received by Mr. Earl Randolph, Librarian.

The books presented were: "Chemical Engineering Around the World," edited by E. L. Piret; "Chemical Engineering in Industry," edited by W. T. Dixon and A. W. Fisher, Jr.; and "High Lights of the First Years of the American Institution of Chemical Engineers," by F. J. Van Antwerpen and Sylvia Fourdrinier.

Earlier this year the MSM Student Chapter contributed \$25.00 to the new United Engineering Center in New York.

Dr. F. H. Conrad, Counselor of the Student Chapter, has received a letter from Mr. Van Antwerpen, Secretary, AIChE, stating, "Believe me when I say I was touched by their thoughtfulness and their contribution which will most certainly aid in the construction of the new United Engineering Center, a monument to the engineering profession of America. Please convey to them my warmest thanks for an action which I consider to bid well for the future success of these young chemical engineers."

The new United Engineering Center, on which construction will begin in the near future, is to be located in New York, N. Y., close to the United Nations building.

## Mrs. A. V. Kilpatrick Dies

Mrs. Jennie F. Kilpatrick, wife of Professor Emeritus Vern Kilpatrick, of the Mechanical Engineering Department, died June 13, 1959, at the Deaconess Hospital in St. Louis, Mo. She was 67 years old at the time of her death and had been a resident of Rolla since 1926. Surviving relatives are her husband; two daughters, Mrs. Charles Jackson, of Florissant, Mo., and Mrs. Phil Hamilton; two sisters and two brothers. Interment was at Rolla, Mo.

*MSM Alumnus*



# Alumni Section News

## Southern California Section

The Southern California Section of the Alumni Association had a small but very enjoyable meeting at the Redwood House on Saturday evening, May 16. Bill Fletcher was presented to the group for the first time in his official capacity as a member of the National Board of Directors of the Alumni Association. Regrets were received from a number of Miners who, due to conflicting dates or absence from the city, were unable to be present. Among these were:

Maurice Bellis '43, Paul Coaske '12, James Keelyn '12, H. W. Lohman '04, Ken Sheckler '37, Jack Stadelhofer '49, Rene Rasmussen '43, Floyd Smith '41 and Herb Soest '06. Cards were received from G. F. Sinnamon '52, who is now in Ann Arbor, Michigan; R. C. Thompson '10, who has moved to the State of Washington and Ed Meeka '30, has moved to Richmond, Calif.

Those in attendance at the meeting were: Mr. and Mrs. Jim Gostin '44, Mrs. Eva H. Greene '11, Mr. and Mrs. Tom Harsell '39, Mr. and Mrs. Scoville Hollister '13, Mr. and Mrs. Don Husemann '43, Mr. and Mrs. Barney Nuell '21, Mr. and Mrs. Wally Ruemmler '38, Mr. and Mrs. Bill Schirmer '49 and Mr. and Mrs. Ernest Stolle '34.

## St. Louis Section

The St. Louis Section is having their Summer dinner party at the home of Mr. and Mrs. James J. Murphy '35, No. 7 Chipper Road, Frontenac, St. Louis County, Saturday, July 11, 1959. For those of you who have not attended prior parties at the Murphys', we can absolutely without reservation say that this is the best party the St. Louis Section has planned and a wonderful time is guaranteed.

Festivities will start at 7:00 p. m., a very delicious dinner later, and dancing. All of this is staged on the Murphys' spacious lawn. To get to the scene of this party par excellence, go west of Lindbergh on Clayton Road, about one mile to Geyer Road, turn south on Clayton Road, about one mile to Geyer Road, turn south on Geyer,

(Continued on Page 14)

# Alumni Sections and Officers

## ARIZONA SECTION

John L. Brixius '47—Chairman—1324 West Vermont, Camel Back Village, Phoenix, Arizona  
Robert F. Winkle '42—Vice Chairman—Box 511, Ray, Arizona.  
C. M. Browning '48—Sec'y-Treas.—4510 Calle Turberia, Phoenix, Arizona.

## ARK-LA-TEX SECTION

W. H. Bruening '34—President—612 Erie, Shreveport, Louisiana.  
C. E. McGaughey '50—Vice President—728 Camilla Drive, Shreveport, Louisiana.  
Guy Heinrich '56—Sec'y-Treas.—P. O. Box 7177, Shreveport, Louisiana.

## CENTRAL ARKANSAS SECTION

James R. Nevin, Jr. '42—740 Forest Lane, Benton, Arkansas.

## CHICAGO SECTION

J. M. Lattin '51—Chairman—14644 S. Edbrooke Ave., Dalton, Illinois.  
Ruble E. Burns '40—Vice Chairman—520 North Michigan Ave., Chicago, Illinois.  
Frank Appleyard '37—Sec'y-Treas.—1209 Milwaukee Ave., Glenview, Illinois.

## HOUSTON SECTION

Dennis McColgin '48—737 Texas National Bank Building, Houston, Texas.

## KANSAS CITY SECTION

Lovell J. Lukrofka '50—President—1109 West 26th St., Independence, Missouri.  
Paul Gebhardt '47—Vice President—11004 35th Terrace, Independence, Missouri.  
J. P. Bryan '24—Sec'y-Treas.—350 South Terrace, Liberty, Missouri.

## NATIONAL CAPITAL SECTION

Robert Lee Fisher '36—Chairman—6401 31st St., N. W., Washington, D. C.  
Rowe F. McCrae '09—Vice Chairman—4400 Fessenden, N. W., Washington, D. C.  
Charles C. Juhre '30—Sec'y-Treas.—2480 16th St., N. W., Washington, D. C.

## NEW YORK SECTION

Robert M. Brackbill '42—Shell Oil Co., 50 West 50th, New York, New York.

## NORTH NEW JERSEY SECTION

J. Craig Ellis '38—President—524 Highland Avenue, Westfield, New Jersey.  
R. O. Day '25—Vice President—1731 Florida Street, Westfield, New Jersey.  
H. F. Bottcher '41—Sec'y-Treas.—75 Fairview Avenue, North Plainfield, New Jersey.

## NORTH TEXAS SECTION

C. P. Febrache '33—President—3029 Green Avenue, Fort Worth, Texas.  
K. F. Anderson '42—Vice President—1114 Commerce, Rm. 1909, Dallas, Texas.

## PERMIAN BASIN SECTION

Paul E. Green '50—President—P. O. Box 1430, Midland, Texas.  
Donald J. Quinn '52—Vice President—1903 W. Ohio, Midland, Texas.  
Thomas F. Newkirk '52—Secretary—P. O. Box 1540, Midland, Texas.  
Warren D. Roach '51—Treasurer—Box 2207, Midland, Texas.

## PHILADELPHIA SECTION

Bob Schmidt '45—Chairman—6 Willowbrook Avenue, Lansdowne, Pennsylvania.

## PITTSBURGH SECTION

O. W. Kamper '35—Chairman—608 Villevista, Pittsburgh 34, Pennsylvania.

## ROCKY MOUNTAIN SECTION

Robert L. Martin '49—Chairman—512 Mile High Center, Denver, Colorado.  
Pauline Schroeder '50—Sec'y-Treas.—County Superintendent of Schools, Golden, Colorado.

## ST. LOUIS SECTION

Peter F. Mattei '37—President—1115 Ford Drive, St. Louis, Missouri.  
Richard H. Bauer '52—Vice President—10032 Dellridge, St. Louis 21, Missouri.  
Jack Eason '53—Sec'y—11100 Marley Drive, Affton 23, Missouri.  
Joseph J. Reiss '49—Treasurer—9461 Arban, St. Louis, Missouri.

## SALT LAKE CITY SECTION

J. E. Stevens '32—Chairman—Box 338, Murry, Utah.  
Phillip Boyer '28—Sec'y-Treas.—1476 Michigan Ave., Salt Lake City, Utah.



#### SAN FRANCISCO BAY SECTION

J. R. Bryant '47—Chairman—16022 Via Media, San Lorenzo, California.  
Howard Histed '28—Sec'y-Treas.—1826 Moraga Street, San Francisco, Calif.

#### SIERRE-MOJAVE SECTION

Lyman F. VanBuskirk '52—President—211A Byrnes Street, China Lake, Calif.  
Joseph M. Seibold '57—Vice President—130B Hancock, China Lake, Calif.  
Gary M. Davis '58—Sec'y-Treas.—61A Renshaw, China Lake, Calif.

#### SOUTHERN CALIFORNIA SECTION

Barney Nuell '21—Chairman—3440 Wilshire Blvd., Los Angeles 5, California.  
William B. Fletcher '34—Sec'y-Treas.—12081 Smallwood, Downey, California.

#### SOUTHERN LOUISIANA SECTION

Henry S. Hickman '33—President—3914 Churchill Avenue, Baton Rouge, La.  
W. R. Tankersley '52—Vice President—7701 6th St., New Orleans 23, La.  
Carl F. Schwab '42—Sec'y-Treas.—1110 Kabel Drive, New Orleans 4, La.

#### TULSA SECTION

Francis W. Schuller '56—President—1215 N. Denver, Tulsa, Oklahoma.  
Bennett D. Howell '50—Vice President—3313 S. Pittsburg, Tulsa, Oklahoma.  
J. M. Wanenmacher '23—Section Adviser—2419 East 19th, Tulsa, Oklahoma.

#### UPSTATE NEW YORK SECTION

A. J. Kiesler '40—Chairman—2068 Coolidge Place, Schenectady, New York.  
Dale Lackey '51—Sec'y-Treas.—11 Larkin Drive, Ballston, New York.

### St. Louis Section

*(Continued from Page 13)*

go one-fourth mile and turn left on Chipper Road and proceed to No. 7.

No one would expect to attend a grand occasion such as this without paying a fee. The committee has set \$6.00 per person as a nominal fee. And again we guarantee that you too will say this is nominal for such a gala evening. Send your reservation to Dick Bauer '52, 10032 Dellridge Lane, St. Louis 21, Missouri.

This is also an installation party for the Section's new officers. Peter F. Mattei '37 is the new President. Richard H. Bauer '52 is Vice President, Joe Reiss '49, Treasurer, and Jack Eason '53, Secretary.

## Monthly Alumni Luncheons

All alumni are welcome at the monthly luncheons on following dates:

New York, New York—Mining Club, 33 Broadway, 5th Floor, at Noon, first Thursday of each month. Contact: J. Craig Ellis '38. Phone WOrth 2-1584.

Denver, Colorado—26 Club, First National Bank Building, first Monday of each month at noon. Contact: John R. Post '39, 215 Mile High Center Building. Phone AL 5-0447.

St. Louis, Missouri—Surf and Sirloin, Forest Park Hotel, West Pine and Euclid, at noon, third Friday of each month. Contact: Ken Hanson '36. Phone MIssion 7-4350.

### Bob Fuller Completes First Year in Rangoon, Burma

Bob Fuller '57, left a year ago to teach science in the Methodist English School in Rangoon, Burma. This is a school of 3400 students, seventy per cent are Burma nationals and twenty-two per cent are Christians. The students come from sixteen different nationalities and it is not uncommon to find students that speak very well in three languages, though Burmese is the national language. This is the language that is used for instruction in most schools in Burma. English is taught in high school in the Methodist School but Bob finds that his English is not understood, consequently he is studying Burmese and has given a few short speeches in the language. Bob has been coaching basket ball with the tallest man on the team a towering 5' 6".

The young people live in a mixture of Asia and America and are deeply affected by the ways of the West. They "love" rock-and-roll music. They attend American movies. They sing popular music from the U. S. A., and the many ideas they have about their country and its future are the ideas they have gotten from the Western countries.

April and May are summer days in lower Burma and are very hot. These are the vacation days in the schools which resume in June. To beat the heat, Bob took to the hills of upper Burma, 400 miles to the north, and spent the time at another Methodist

school, the Kingswood School, in Kalaw. The trip was made by third-class rail transportation which took twenty-two hours and for sleeping accommodations he utilized the luggage rack part of the night. Bob's address is 65 Signal Pagoda Road, Rangoon, Burma.

### Eugene McAuliffe Dies At Omaha, Nebraska

Eugene McAuliffe, Doctor of Engineering, Honoris Causa, former chairman of the board of the Union Pacific Coal Company, died June 2, 1959, in a Omaha, Nebraska, hospital. At nine he became an apprentice in a Fargo telegraph office. He was working when news of the Sioux massacre of General Custer and his Seventh Cavalry came in. He became a lifelong student and defender of General Custer. Mr. McAuliffe became president of the Union Pacific Coal Company in 1923 and was chairman at his retirement in 1947.

He is survived by his wife and two daughters, two granddaughters and three great-grandchildren.

### Does Technical Bulletin For Bureau of Standards

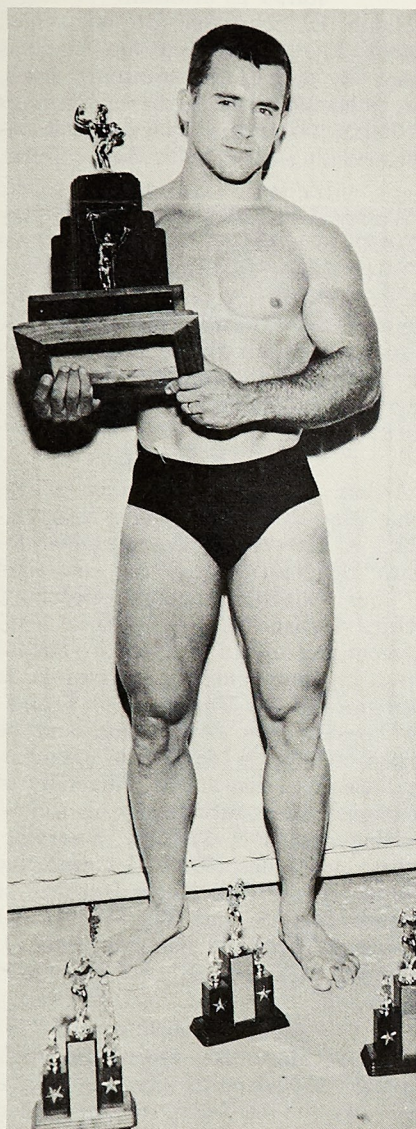
Samuel J. Schneider '52, staff member, U. S. Bureau of Standards, Washington, D. C., has completed a study of "Heat Treatment of High Temperature Cements" and a Technical Report 2285, has been issued by the Bureau.

The effects of temperature on the composition and mechanical properties of hydrated aluminous cements were investigated. The temperatures at which the studies were made varied between room temperature and 1400 degrees centigrade. The samples were cured, dried, heat-treated, and then identified by X-ray diffraction and differential thermal analysis. Measurements of transverse strength, modulus of elasticity, and changes in length with temperature were compared with the change in composition that occurred during hydration and dehydration.

The studies revealed a correlation between the changes in mechanical properties of the hydrated aluminous cements and the corresponding changes in the mineralogical composition as a result of heat treatment.



## Recent Graduate Named "Mr. New Orleans"



*Robert Brew*

Robert Brew received his degree in Civil Engineering in January 1959, and was employed by the California Company in New Orleans, Louisiana. Immediate recognition did not come in the field of his profession but in the realm of his avocation and he was named "Mr. New Orleans" in a contest held in May at Pontchartrain Beach. He also won the title of most muscular and possessor of best arm and back.

Brew weighs 165 pounds and is 5 ft. 6½ inches tall. This was the 19th annual Mr. New Orleans contest.

## Miners Show Up Well In Spring Sports

The Miner tracksters participated in six dual meets this past season and they were able to win half of them and two of the meets were lost by a total of 3¼ points. Victories were chalked-up over the teams from Drury, Westminster and Harris Teachers, St. Louis, Mo. And the defeats were handed the Miners by the teams from Southern Illinois University, Springfield and Washington U. Springfield eked out a victory by two points in the last event and Washington U. did likewise by 1¼ points.

The M. I. A. A. Indoor meet was held at Columbia and the Miners ended in the cellar position but there was just four points between the last three teams. In the outdoor meet, with the School of Mines as host, the Miners fared much better and were in third place at the end of the competition, Kirksville winning the top honors.

In golf matches this spring the Miners won four out of seven contests. The victories were over Springfield, Drury, Washington U., and Concordia. Their losses were to Westminster, St. Louis U. and Washington in a return match. The tennis team copped four out of seven contests also, beating Springfield, Harris Teachers, Concordia and St. Louis U., and losing to Drury, Westminster and Washington U.

In the M. I. A. A. outdoor meet; in golf, the Miners placed second; in cross-country the Miners were on top and in tennis, fifth. Miner scant-clad Jim Houseman was runner-up in individual points in the M. I. A. A. outdoor meet, placing second in the 100 and 220 yard dash and third in the broad jump.

## BIRTHS

Mr. and Mrs. Paul Barnard '52, announce the birth of a daughter, Cheri Ann, February 25, 1959, at the Phelps County Memorial Hospital, Rolla, Mo. Mr. Barnard is a Metallurgical Engineer with the Bureau of Mines, Rolla.

Mr. and Mrs. Harold Melton '57, have their second daughter, Julia Kathryn, born February 6, 1959. Her brother, Kelvin, is 3 years, and her sister, Kerrie Ann, is one and one-half years. The father is employed with the Laclede Steel Co., Alton, Ill. He was formerly with the Alton school system.

Mr. and Mrs. James Hubbard '52, have a sister for their other daughter, Vicky, who was born February 26, 1959, and named Sandra Sue. James is a resident engineer for the Missouri State Highway Department at Rolla, Mo.

Mr. and Mrs. William M. Shepard '51, 3015 So. Jasmine St., Denver 22, Colorado, have their second child, Steven Greig, born March 4, 1959. Jane Elizabeth will be three in July. Bill is a geologist with Bear Creek Mining Co.

Mr. and Mrs. Gerald Schnaedelbach '50, belatedly but proudly announce the arrival of Susan, born June 24, 1958. Gerald is assistant design superintendent, Ships Dep't, U. S. Naval Station, Key West, Florida. Address 3515 Flagler Ave.

Mr. and Mrs. Leroy M. Wood '56, wish to inform the MSM alumni of the birth of their first child, Loretta Marie, born December 5, 1958. Leroy is a graduate student, Physics Department, University of Buffalo. The Woods' reside at 161 Chadduck Ave., Buffalo 7, New York.

Mr. and Mrs. Donald L. Honerkamp '50, had their first child, Mark Norman, May 14, 1958. Donald is with the Sinclair Research Labs., Inc., 400 E. Sibley Blvd., Harvey, Illinois. The Honerkamps' home is at 3004 Longfellow, Hazelcrest, Illinois.

Mr. and Mrs. Edward L. Creamer '53 are parents of Ann Elizabeth, born January 26, 1959. Ed is a metallurgist with Shell Oil Co., Wood River, Ill. Ed has also completed his Master's degree in Metallurgy at Washington U., St. Louis, Mo. Their address is 1229 Ashford Drive, St. Louis 37, Mo.

Mr. and Mrs. James J. Wofford '56, have their first child, Julie Ann, born October 4, 1958. The Woffords' live at 302 7th St., Crystal City, Mo.

Mr. and Mrs. Richard Zumsteg '51, wish all to know about Mary Margaret, born June 18, 1958, making four little Z's. Dick is technical representative in explosives with duPont and is living at 4808 Lowell Lane, Ft. Worth, Texas.

Mr. and Mrs. Alfred S. Neiman '53, 1316 American Way, Menlo Park, California, announce the birth of their son, Michael, November 7, 1958. The father is a metallurgist at Stanford Research Institute.



Mr. and Mrs. Robert H. Erskine '50, are the parents of a daughter, born April 18, 1958. Bob was made assistant manager of the Steel Division, Peter Fredenburgh Co., Springfield, Ill. Their Springfield address is 57 Meadowlark Lane.

Mr. and Mrs. David R. Levy '50, now have in their household a baby girl born April 9, 1959, in the Jewish Hospital, St. Louis, Mo. David is a stress engineer at Emerson Electric. The home address is 7514 Oxford, Clayton 5, Mo.

Mr. and Mrs. R. J. Niederstadt '50, have an addition to their family, a son, Kurt. The father is with Mobil Oil Co., E. St. Louis, Ill. Their residence address is 5809A Devonshire, St. Louis, Missouri.

Mr. and Mrs. George L. Senior '56, have their first child, a daughter, Janice Lynn, born February 18, 1959. The Seniors' residence is at 3078 South 41st St., Omaha, Nebraska. George is with Peter Kiewit Sons' Co., as an engineer-estimator with offices in Omaha. Virginia will be remembered as the alumni office secretary in 1955 and 1956.

Mr. and Mrs. John B. Burmeister '59, announce arrival of Michael Thomas, June 6, 1959, at Trona, California. The parents live at 800 7th Place, Naval Ordnance Test Station, China Lake, California.

Mr. and Mrs. Thomas E. Light '59, also have a son, Mark Edwin, born May 30, 1959, at the Phelps County Memorial Hospital, Rolla, Mo. The father is employed by the Kansas City District, Corps of Engineers and presently is assigned at Ft. Wood.

## MARRIAGES

### *Anderson—Thomas*

Donald E. Anderson '56 and Shirley Mae Thomas of Rolla, Mo., daughter of the late Harry E. Williams, of Rolla, and Mrs. Alice Williams of St. James, Mo., were married April 7, 1959, at the First Baptist Church in St. James. Don is an instructor in the Mechanics Department at MSM and working on his Master's degree. They are at home in the Grant Apartments, Rolla, Mo.

### *Horton—Geehan*

H. Robert Horton '56 and Roberta A. Geehan, daughter of Mr. and Mrs. Robert W. Geehan, of Rolla, Mo., were married January 31, 1959 at the First Methodist Church, in Rolla. Both Mr. and Mrs. Horton are enrolled in the

graduate school at the University of Missouri, Columbia; she is working toward a Master's degree in microbiology and he for his Ph. D. in bio-chemistry. They are living at 902A College Ave., Columbia.

### *DeBolt—Beagles*

Donald G. DeBolt '49 and Martha Rae Beagles were married in Mexico, Missouri, December 26, 1958. Mrs. DeBolt is teaching at the Hawthorne School in Mexico. Don is employed by the A. B. Chance Co., in their sales and marketing department, in Centralia, Mo., and the newlyweds are living there at 449 South Jefferson.

### *McCarty—Higer*

Thomas M. McCartney '58 and Miss Carol Jean Higer were married April 25, 1959, at the Corpus Christi Church in Jennings, Missouri.

### *Toutz—Taylor*

James O. Toutz '54 and Miss Janice Taylor were married October 25, 1958, and their residence address is 3014 E. 61st St., Kansas City, Mo. Jim is employed by the Kansas City Power & Light Company.

### *Englund—Ortiz*

John O. Englund '53 and Miss Nelly Ortiz, of Pacasmayo, Peru, were married December 27, 1958. John is a metallurgist with Marcona Mining Company, Apartado 1229, Lima, Peru.

### *Alvarado—Acosta*

Frank T. Alvarado '52 and Miss Stella Acosta, a citizen of Costa Rica, were married November 29, 1958. Frank is with the U. S. Bureau of Public Roads, San Jose, Costa Rica.

### *Rath—Cain*

Ronald H. Rath '59 and Lauralea Cain, of Affton, Missouri, were married June 6, 1959, at the South Webster Presbyterian Church. Ronald is former president of the Pi Kappa Alpha fraternity on the campus. After a wedding trip to Galveston, Texas, the newlyweds will make their home in Indianapolis, Indiana, where the groom is associated with Linde Air Products Co.

## DEATHS

### *Robert B. Mitchell*

Robert B. Mitchell '11, passed away June 15, 1958. He was residing at Wilburton, Oklahoma, at the time of his death.

### *Ralph A. Conrads*

Ralph A. Conrads '04, died January 5, 1959, in Clearwater, Florida. He retired from the Syntrol Company, Sep-

tember 1958, where he was vice-president of their Florida sales company. He is survived by his widow, Jessie P. Conrads, 1505 Laura St., Clearwater.

### *Ralph E. Schneider*

Ralph E. Schneider '36 was killed March 23, 1959, when his car was struck by a gasoline transport truck. Mr. Schneider was in the oil business in Tulsa, Oklahoma. Surviving is his wife, residing at 3462 S. Zuni, Tulsa.

### *Wesley J. Hartnagel*

Wesley J. Hartnagel '31, died May 9, 1959, of a heart attack at his home at 3640 Childress, St. Louis, Missouri. He had retired five years ago as a sales engineer with Glasco Electric Co. He is survived by his widow, Mrs. Catherine Hartnagel; a daughter, Mrs. Godfrey R. Standing and a son, Robert W. Hartnagel.

### *Arthur L. Pollard*

Arthur L. Pollard '09, died at his home May 20, 1959, from a heart attack. A six-week illness preceded his death. He had entered and succeeded in four different pursuits—teaching, factory management, sales firm management and scientific research. His interest in bacteriology and research in antibiotics at the University of Tennessee brought him prominence, and he helped develop a course in microbiological engineering at the University of Tennessee. He is survived by his widow, residing at 514 S. 21st St., Knoxville, Tenn.; two sons, Wm. G., executive director of the Oak Ridge Institute of Nuclear Studies, and Raymond D., of Kingsport, Tenn.; a daughter, Mrs. J. Bradford Wharton, Jr., of Baltimore, Maryland.

### *Eugene McAuliffe*

Eugene McAuliffe, Doctor of Engineering '27 (Honoris Causa), retired chairman of the board of the Union Pacific Coal Co., died June 2, 1959, in Omaha, Nebraska. He was 92 years old.

## Alumni Personals

### 1907

Walter C. Richards and Mrs. Richards, 126 Gray Ave., Webster Groves 19, Mo., celebrated their fiftieth wedding anniversary March 31st. A tea was given in their honor by their daughter, Mrs. A. W. Moise.

### 1911

Maurice M. Albertson is now in Portland, Oregon, 9106 S.W. Terwilliger Blvd. He has finished the fourth

MSM Alumnus



year in "Great Books" work, three of which were in Texas. Mr. Albertson would appreciate hearing from other old timers.

### 1912

Henry F. Adams and Mrs. Adams are on an extended trip to Europe where they will spend six months or more. On their return to the states they expect to make their home in Santa Barbara, Calif.

Joseph S. Irwin, past president of the Association of Professional Engineers of Alberta, Canada, addressed the graduating classes in engineering and geology of the University of Alberta, in Edmonton, on March 21, 1959, at the annual luncheon given by the Association to the graduates. Mr. Irwin is a consulting geologist with offices at 812 Lancaster Bldg., Calgary, Alberta, Canada.

### 1922

Kingston M. Bowman is with the Bureau of Yards & Docks, Dept. of Navy, Washington 25, D. C. His residential address is 6043 Broad St., Brookmont, Maryland.

### 1923

Paul E. Fischer, who is with Fibreboard Paper Products Corp., San Francisco, Calif., resides at 636 Brewer Drive, Hillsborough, Calif.

### 1924

George C. Gabler has been with General Electric Company for ten years and is now assigned to their Evendale Plant, Evendale, Ohio, that specializes in jet engines and nuclear propulsion aircraft engines. He has been at the Hanford Products Operation, Richland, Washington, and the Vallicitas Research Laboratory, the first privately owned licensed atomic power reactor and test reactor at Pleasanton, Calif. His residence address is 7505 Montgomery Road, Cincinnati 36, Ohio.

### 1929

Colonel John H. Hahn retired from the U. S. Army, at Ft. Sill, Okla., on April 1. He was serving as chief of the editorial division of the U. S. Army Artillery and Missile School's Department of Training and Literature and Non-Resident Instruction. He completed more than 30 years of service, receiving his commission upon graduation and he went on active duty in 1940. The Colonel and his family plan to move to Colorado, where he will open a mine in the Ruby Mining District.

### 1933

Bernard "Ben" J. Gross, Vice-President—Marketing, W-K-M, Div. of A. C. F. Ind., Inc., just finished a 13 week course in Advanced Business Management at the Harvard Business School. Ben is living in Houston, Texas, 5210 Champlain Bend.

William Koopman is in Baltimore, Maryland with Kaiser Aluminum Co. His address is 1101 Gary Dr., Catonsville, Baltimore 28.

### 1937

Brooks J. Wolfe is with B. F. Goodrich Chemical Company, Avon Lake, Ohio, and has residence at 2734 Devon Hill Road, Rocky River, Ohio.

### 1938

Jesse S. LeGrand is Executive Engineer for I. T. T. Labs., 500 Washington, Nutley, New Jersey. His new residential address is 107 Haddenfield Road, Clifton, New Jersey.

### 1939

Robert C. McKissick is Chief, Aircraft Branch, Standardization and Modification Div., Aeronautical Center, FAA, Oklahoma City, Oklahoma.

John H. Livingston, as reported in the March-April issue of the MSM ALUMNUS, does not have three grandchildren but does have three GRAND children, and we might add a GRAND wife. All are living near McDade, Louisiana.

### 1940

W. P. Young is Assistant Sup't of Metallurgy and Inspection at Wisconsin Steel Div., International Harvester Co., Chicago, Ill., and has residence at 419 South Edgewood Ave., LaGrange, Ill.

Leslie M. Payne is with the G-4 Section USAEC2&FB, Fort Belvoir, Virginia.

### 1941

Merritt M. Francis has passed the New York State civil service examination for senior civil engineers and he expects to be offered an appointment at District No. 6, Hornell, N. Y. Merritt and his wife, Jean, have two sons, Michael, 16, and Charles, 12. Presently they are living at 2 Tracy Ave., Belmont, N. Y.

Marvin C. Grisham is with National Gypsum Co., as production manager. He has had 18 years experience in the gypsum industry. Marvin, his wife and two sons, 6 and 13, live at 332 Wilow Ct., Ridgewood, N. J.

### 1942

George W. Axmacher is the manufacturer's agent and partner of Lietz Equipment Co., 318 N. Pearl St., Dallas, Texas. The company has offices in Hobbs, New Mexico, Odessa, Texas, and Dallas, Texas. George resides at 2502 Housley Drive, Dallas 28, Texas.

Russell W. Hollander is district manager, Southwestern Bell Telephone Company, Dodge City, Kansas.

Robert A. Pohl is now Manager of Monsanto Chemical Company's Anniston, Alabama plant. This is no small job and we wish to congratulate him on his advancement. He was formerly in St. Louis, Mo. His address is 1305 Kelly Terrace, Anniston.

### 1943

D. H. Studebaker is still with Standard-Vacuum Petroleum and assigned in Indonesia. His address is Trommel Pos 044 Palembang, Sumatra, Indonesia.

Don J. Huseman is Executive Vice President and Chief Engineer of the St. Louis Bearing Co., Wilmington, California. His residence address is 4130 Locust Ave., Long Beach 7, Calif.

James V. Carroll is with the Aluminum Company of America and is living at 44 Clarkson Ave., Massena, N. Y.

William G. Hoffman has moved back to St. Louis, Mo. His mailing address is 2654 Locust.

Bruce R. Landis and family are now in their new home, 7107 34th Ave., N. W., Seattle, Washington. They have an awe-inspiring view of Puget Sound and the Olympic mountains.

### 1944

Mrs. Jean Lloyd Arras and her husband Robert M. Arras will make their new home in Havana, Cuba. The Arras' have been in Venezuela for the past ten years. Mr. Arras is a representative of the Chrysler Corporation and he will continue his duties with this company at his new assignment.

Richard S. Mateer left the University of Pittsburgh last summer for a new position as professor and head of Department of Mining and Metallurgical Engineering at the University of Kentucky. He is also consultant for the Oak Ridge National Laboratories. His Lexington address is 511 Lone Oak Drive.

Warren L. Larson is senior staff metallurgist, Nuclear Metals, Inc., West Concord, Mass. At a family reunion he saw his brother Leonard N. Larson '43



for the first time in 12 years. Warren's address is 117 Lincoln St., Lexington, Mass.

# 1947

George E. Purdy is associated with Tretolite Company, 369 Marshall Ave., St. Louis 19, Missouri. His residential address is 1053 Glenbrook Drive, St. Louis 22, Missouri.

Robert F. Devine has been named Supervisor, Plant Engineering in the PWR Project at the Westinghouse Bettis Atomic Power Division. He joined Bettis in 1954 and is working on the planning and formulation of the program for operational testing of the reactor plant and design of all physical changes of the Shippingport (Pa.) Atomic Power Station. This is the United States' first full-scale central station atomic power plant devoted exclusively to civilian use. Devine, his wife and three children live at 4715 Meadowgreen Drive, Pittsburg 36, Pa.

# 1948

Lt. Comdr. Lawrence F. O'Neill is with the public works office, Norfolk Naval Shipyard, Portsmouth, Va. He will attend a six-month post graduate school in management at Monterey, California in the January 1960 class. His address is 225 Boxwood Dr., Portsmouth, Va.

Joseph T. Hepp has a change of address from St. Charles, Mo., to 785 Franklin St., North Muskegon, Michigan.

Arthur E. Scholz has a new address: Crucible Steel Co., Oliver Bldg., Pittsburgh 22, Pa.

# 1949

Paul H. Greer is project engineer for Motorola, Inc., Western Military Electronics Center. The Greers have four children: Linda, 10; Susan, 8; David, 5; and Lisa, 2. They all are enjoying Arizona and they live at 4233 E. Mitchell Drive, Phoenix.

William J. Young is associated with P. A. Laurence Co., Builders Exchange Bldg., Minneapolis, Minnesota. His residential address is 2805 So. 42nd Avenue, Minneapolis 6, Minn.

Robert G. French is employed by Howard, Needles, Tammen & Bergendoff, 1805 Grand, Kansas City, Missouri. His home is at 2604 Lawndale, Kansas City 27, Missouri.

John S. Hegwer, who is with the Mobil Oil Co., has been transferred from Billings, Montana, and his address now is: Mobil Oil of Canada,

Ltd., Mobil Oil Building, Calgary, Canada.

Leonard E. Dieckman, S. J., who has been teaching at Regis College, Denver, Colorado, has a new assignment at St. Mary's, Kansas.

William E. Mead is with Reynolds Aluminum Co., and his residence address is 178 Hailesboro St., Gouverneur, N. Y.

R. C. Perry, 207 Magnolia Place, Pittsburgh 28, Pa., recently has been transferred from the Pittsburgh Plate Glass Company's plant at Cumberland, Maryland, and is Assistant to General Manager, Plate Glass Plant at Pittsburgh.

Harvey D. Ross is now in the third year of employment with I.B.M. Corp., San Jose, Calif., and is manager of materials application department. There are two girls in the Ross family. Their address is 15921 Quail Hill Rd., Los Gatos, Calif.

Otto Van Maerssen has been appointed reservoir engineer on the Dallas staff of Stekoll Petroleum Co., to handle increased international operations. He will analyze company reserves and recovery rates to determine the feasibility of secondary recovery projects. The company's executive offices are located in the Mercantile Continental Building in downtown Dallas, Texas.



Otto Van Maerssen

# 1950

Robert C. Wood just recently started working for Africa-Cities Service

and is doing re-interpretation of seismic work and field crew supervision. His mailing address is c/o Africa-Cities Service Petr. Corp., B. P. 19, El Biar (Alger), Algeria, Africa.

Lawrence J. Nagel is Materials Engineer, Advisory Group, Capitol Engineering Corp., Boite Postale G-4, Saigon, Vietnam.

Douglas F. Middleton, formerly a reservoir engineer with the Texas Company in Liberty, Texas, has been transferred from the Texas Company to the Arabian American Oil Company, of which the Texas Company is one of the four owners, to the New York office and will be working in the exploitation and production department as a petroleum engineer in the fluid flow and reservoir media section. His business address is 505 Park Ave., and residence address is 93 Glenbrook Rd., Apt. 25, Stamford, Conn.

Harold E. Tibbs has been named Quality Superintendent of the Ft. Dodge plant of the U. S. Gypsum Co. Tibbs joined U. S. Gypsum in 1950 as Quarry Engineer. In 1953 he became Mine Superintendent of the Heath, Montana, plant and later Board Superintendent. He was Quality and Mill Superintendent prior to returning to Ft. Dodge. He lives with his wife and four children at 1320 First Avenue North in Fort Dodge.

James P. Webster and family have moved from New York, N. Y. to Glen Ellyn, Illinois. Jim is now with the Dictaphone Corporation's special products division as sales engineer for the Midwest. He hopes to be in Rolla this fall for Homecoming. His mailing address is P. O. Box 84, Glen Ellyn.

Joseph H. Gaddy is now the Director of Maintenance Control of the Marine Corps Auxiliary Air Station at Yuma, Arizona. He is living at 2044 Sixth Avenue, Yuma, Ariz.

Anthony J. Pantaleo is employed by the California Company, New Orleans, La. His home is at 127 Perard, Lafayette, Louisiana.

Ernest Neill Uhles is residing at 2310 Ingleside, San Antonio, Texas.

Gerald L. Hammon, instrumentation engineer, International Minerals and Chemical Corp., Skokie, Illinois, is living at 1633 S. Ashland Ave., Park Ridge, Ill. There are three boys in the Hammond family.

Anibal Jose da Silva is a field representative for Link Aviation, Inc., Binghamton, N. Y. During overseas



assignment he met and married a German girl and he has a 17 year old step-daughter. The da Silvas have two daughters, two years, and six months old. Their home is at 82 Weyman Ave., New Rochelle, New York.

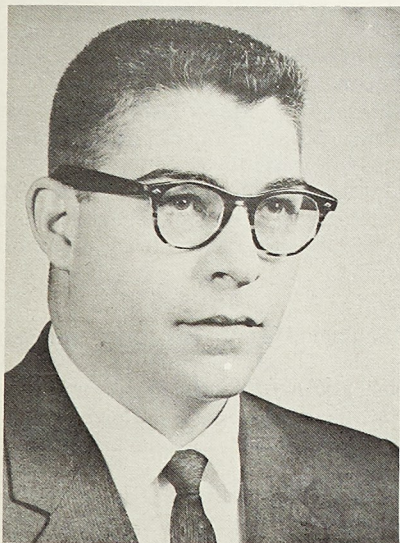
Robert L. Choate, 16218 E. Elgenia, Covina, Calif., is employed as senior research engineer in the electronics research section, Jet Propulsion Laboratory, Pasadena, Calif.

W. F. Netzeband, Jr., is now associated with Pacific Mercury, Joplin, Mo. His address there is 2901 East 15th.

Lt. Jack E. Guth, of the U. S. Coast and Geodetic Survey, is chief of party, of a mountain triangulation party in the West and Northwest. His mailing address is U. S. Coast and Geodetic Survey, Washington 25, D. C.

Don Marshall who has been District Engineer, Public Health Service, Cameron, Mo., has resigned to accept a position as Public Health Engineer with Pennsylvania State University, State College, Pa. James E. Akers '53, Ass't Dist. Engr. will succeed Don in the Cameron office.

Robert E. Hebert, a metallurgist for four years at Vanadium-Alloys Steel Co., Latrobe, Pa., has been named Manager of the new Vacuum Melting Dept. Hebert's industrial experience includes vacuum furnace design and operation in both steel and titanium.



Robert E. Hebert

William Weinstein has been appointed division engineer, traffic and transportation division, Foundation Com-

pany of Canada, Ltd., with headquarters at the Fenco offices in Toronto. Mr. Weinstein has had wide experience in highway engineering throughout North America. Since 1955, he has been project manager of the Don Valley Parkway development in Toronto—a responsibility he will continue to have in his new position.

William Hollis and family have purchased a new home on Seven Star Road, Groveland, Mass. Bill is with General Electric in their instrument department of the West Lynn plant.

John O. Oliphant, employed by the Eby Construction Co., Wichita, Kans., is now working in Littleton, Colorado. Mailing address Box 485.

Llewelyn N. Lodwick has been appointed plant industrial engineer at the Utah Pipemill of U. S. Steel's Consolidated Western Steel Division. He joined U. S. Steel as an industrial engineer at Geneva Works and later served there as a senior industrial engineer before his transfer to Utah. Mr. and Mrs. Lodwick and their two sons live at 874 North 4th East, American Fork, Utah.

#### 1951

John C. Theiss is now a partner in the firm, Otto E. Heinicke & Co., consulting engineers, St. Louis, Mo. His home address is 8519 Midwood, Berkeley 21, Mo.

Bob Zane has moved to Louisville, Ky., and is living at 4423 Mt. Vernon Road.

John R. Tate is a field engineer with the U. S. Geological Survey. His mailing address is Box 133, Rolla, Mo.

Donald D. Montgomery, formerly from California, is now residing at 3641 Ridge Road, Highland, Indiana.

David M. Irwin's new mailing address is 913 Alynwood Circle, Charleston 4, West Virginia. David is formerly from Euclid, Ohio.

Jack N. Koch has been promoted to district sales manager for the Texas, Louisiana and Gulf Coast area for General Refractories Co., Houston, Texas. Jack has been with General since graduation. The Kochs have five children, and reside at 5639 Benning Dr., Houston.

Donald O. Schafer is with S. B. Penick, manufacturer of pharmaceuticals, in Lyndhurst, N. J., and has been for the last 3½ years. He is married and has one daughter, Diane, 2 years old. His address is 118 Stevens Place, North Arlington, N. J.

David U. Gillen is in South America, employed as a mining engineer with Andes Copper Mining Co., Potrerillos, Chile.

Eugene F. Kolb, 628 Woodbine Ave., Towson 4, Maryland, is with Bendix Radio.

#### 1952

Frank Birch and his wife, Bettjeanne Birch, '49, have gone to Chandalar, Alaska, where Frank will head a small gold mine operation north of Fairbanks and above the Arctic Circle for the summer. The children are accompanying their parents of course. Their address is Little Squaw Mining Co., Chandalar, Alaska.

Richard Justus is with Eagle-Picher Co., in the Couplers Department. They make special purpose batteries for the armed services. He is assigned to the quality control department. One of these batteries was in the first satellite sent up in the Atlas missile. Dick's address is 221 E. 34th St., Joplin, Mo.

#### 1953

Harry Williamson, Jr., is with the Mountaineer Coal Co., Fairmount, West Virginia.

Raymond R. Reschetz, ceramic engineer with the A. E. Staley Mfg. Co., in their market development division,

#### HELP US KEEP YOUR ADDRESS CURRENT

If your address has changed, complete and tear out this slip and mail it immediately to MSM Alumni Association, Rolla, Mo. Thanks.

Name .....

My new address is .....



is now residing at 1648 West Forest, Decatur, Illinois.

William C. Blackwell has moved from Cedar Rapids, Iowa, to Richardson, Texas. His address there is Apt. 8, 315 LaSalle.

Charles M. McDowell is a graduate student at the University of Michigan. His address is 4536 Packard Road, Ypsilanti, Mich.

#### 1954

1st Lt. John L. Finley's address is now 607 McLawhorine Dr., Warwick, Virginia.

#### 1955

Spyros G. Varsos recently has been transferred to Surface Communication Dep't of R. C. A. from TV Broadcast Studio Equipment Division. The Varsos' have their first addition to their family, a boy, and he was named George. Their address is 236A Hillcrest Ave., Collingswood 7, N. J.

Lt. (jg) Carl G. Penzel has a change of address to 1313 Huische, Kingsville, Texas.

Paul Allen Hutchings, U. S. Navy, Patrol Squadron One, NAS Whidbey Island, Oak Harbor, Washington, will be home at RFD No. 2, Pinckneyville, Illinois, after June 19, 1959.

Henrique D. Frenkel is becoming an entrepreneur with many activities. He is director and main shareholder of Intertec, C. A., a company engaged in the sales and process and construction equipment. He is President of Negros de Humo Venezolanos, a new company which plans to industrialize carbon black in Venezuela. He is administrative director of Consultores Insustriales Venezolanos C. A., a consulting company specializing in process, design and

control and in corrosion work. It is associated with two American companies. And lastly he is president of Grupo Tecnico de Promocion Industrial, a group engaged in industrial promotion in Venezuela. His mailing address is P. O. Box Apartado 5463, Caracas, Venezuela. The Frenkels have their second daughter, Paulette Rachel, born April 13, 1959.

#### 1956

Willis F. Estep is a seismograph operator with Esso Standard (Turkey) Inc., and is assigned at Ankara, Turkey.

Michael H. Vallez is assistant shift foreman for the Chile Exploration Co., Chuquicamata, Chile. He was to be married, June 6, to Miss Sonia Labbe in the San Salvadore Church, Chuquicamata, and the honeymoon is to be spent in Argentina and Brazil.

William A. Gartland, research engineer, Ford Motor Co., has a new address, 8677 Kinloch, Dearborn, Michigan.

Mehi Rahmani Fard accepted employment with the Kuzestan Development Service, an American concern under contract for planned organization of Iran, resource investigation and initiating a series of basic projects, as electric and gas transmission and utilization, chemical manufacturing and irrigation and river control. Mr. Fard's address is Kucheh Shafi Sarraf, Dolat Ave., Gholhak, Tehran, Iran.

#### 1957

Charles Soriano has just completed two years of employment with Sikorsky Helicopters, Division of United Aircraft Corp. Mr. Soriano has been with the firm since graduation and is now working as an experimental component

designer. He is primarily responsible for the design of helicopter transmission systems. Mr. and Mrs. Soriano are now residing at 123 Papurah Road, Fairfield, Conn.

Clifford W. Blackstun is associated with the Bethlehem Steel Co., Supply Division, 409 Carondelet Bldg., New Orleans, Louisiana. His home is at 4216 Barnard, Metairie, Louisiana.

Bob Eshbaugh's new residential address is 1407 Kanawha, Hyattsville, Maryland. Bob is with Naval Ordnance Laboratories.

Robert G. Fuller is a teaching Missionary and his address is 65 Signal Pagoda Road, Rangoon, Burma.

Elliott Kurzman's address is 1316-B S. W. 13th St., Gainesville, Florida.

Kermit R. Kreder is with American Standard Co., San Pablo, Calif., and resides at 2620 San Mateo St., Richmond, Calif.

#### 1958

Dale A. Strub is employed by Clark Daily & Dietz, consulting engineers, in Urbana, Ill. His address there is 514 Fairlawn Dr.

George D. Tomazi has left Jennings, Missouri, and is living at 528 North Howard St., Apt. 202, Alexandria, Virginia.

Roy C. Wollgast of St. Louis is now a private in the Army. His military address is R & D Co., USASRDL, Spt. BN., Ft. Monmouth, New Jersey.

Lt. Kenneth R. Schultz, formerly of Joplin, Missouri, is now residing at 3250 D. Morton Rd., Ft. McClellan, Alabama.

Dwight L. Meyer has moved from Potosi, Missouri, to 6115 Gailbreath, Louisville, Kentucky.

Leslie M. Elliott's home is at 8001-W. 85th St., Overland Park, Kansas. Leslie is previously from Louisville, Ohio.

#### 1959

Samuel Woods has been employed by the U. S. Gypsum Company at their Southard, Oklahoma, plant.

Kenneth L. Stuckenschneider's new address is 5802 E. Kincaid, Wichita, Kansas.

John E. Averill, Jr., is with Cook Paint & Varnish Co., N. Kansas City, Mo., and he resides at 1527 Lexington Court, Kansas City 10, Mo.

Richard Le Grand has joined the U. S. Gypsum Co. as production assistant at North Kansas City, Missouri, plant.

### MSM ALUMNI ASSOCIATION

ROLLA

MISSOURI

TO